

94465

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: BEN JACKET Examiner #: 73489 Date: 5/15/03
 Art Unit: 1626 Phone Number 30 5-6889 Serial Number: _____
 Mail Box and Bldg/Room Location: CM 3819 Results Format Preferred (circle): PAPER DISK E-MAIL

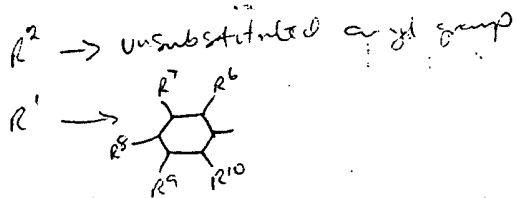
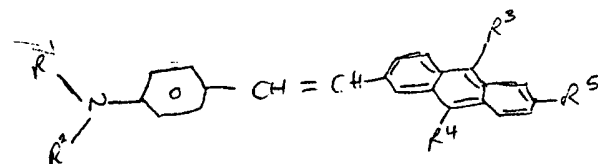
If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Aminostyryl anthracene Compound, Synthetic intermediates & process
 Inventors (please provide full names): Naoki Ichimura et al.

Earliest Priority Filing Date: 04/06/2001

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



$R^3 - R^{10}$ are as defined in claim 1

RECEIVED
MAY 20 2003
STN 100

STAFF USE ONLYSearcher: K. Fillion

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: _____

Date Completed: 5/21/03Searcher Prep & Review Time: 20

Clerical Prep Time: _____

Online Time: 20**Type of Search**

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) 1

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicableSTN ✓

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

=> FILE REG

FILE 'REGISTRY' ENTERED AT 15:15:21 ON 21 MAY 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAY 2003 HIGHEST RN 518004-10-9
DICTIONARY FILE UPDATES: 20 MAY 2003 HIGHEST RN 518004-10-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 15:15:26 ON 21 MAY 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN. Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

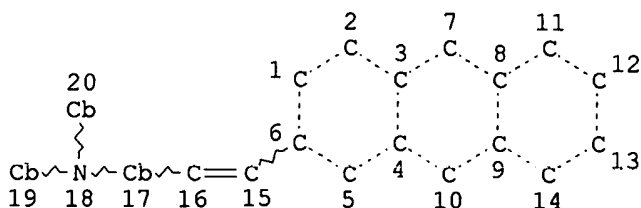
FILE COVERS 1907 - 21 May 2003 VOL 138 ISS 21
FILE LAST UPDATED: 20 May 2003 (20030520/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> D QUE

L3

STR



90 structures from this query

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L5 90 SEA FILE=REGISTRY SSS FUL L3
 L6 8 SEA FILE=HCAPLUS ABB=ON L5

=> D L6 ALL 1-8 HITSTR

*8 CA references from the
 90 structures*

L6 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:553526 HCAPLUS
 DN 137:132204
 TI Organic electroluminescent (EL) elements for full-color flat displays with
 high brightness and durability
 IN Tamura, Shinichiro; Ishibashi, Tadashi; Ichimura, Mari
 PA Sony Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 32 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM H05B033-14
 ICS C09K011-06
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 Section cross-reference(s): 38, 73

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002208488	A2	20020726	JP 2001-4859	20010112
PRAI	JP 2001-4859		20010112		
AB	The element has an org. layer (including a light-emitting region) between an anode and a cathode, wherein the org. layer contains an elec. conductive polymer including a styryl compd. (a distyryl compd., preferably) chem. bonded to the main or side chain of the polymer.				
ST	org EL full color flat display; electroluminescent display high brightness styryl polymer; styryl graft polyphenylenevinylene elec cond display				
IT	Optical imaging devices (flat, full-color, elements for; org. EL elements contg. elec. conductive polymers having distyryl structures with high brightness and durability)				
IT	Conducting polymers (light emitter; org. EL elements contg. elec. conductive polymers having distyryl structures with high brightness and durability)				
IT	Electroluminescent devices (org. EL elements contg. elec. conductive polymers having distyryl structures with high brightness and durability)				
IT	443971-33-3	443971-35-5	443971-37-7	443971-39-9	
	443971-41-3 443971-43-5				
RL:	TEM (Technical or engineered material use); USES (Uses) (light emitter; org. EL elements contg. elec. conductive polymers having distyryl structures with high brightness and durability)				

IT 443971-39-9 443971-41-3 443971-43-5

RL: TEM (Technical or engineered material use); USES (Uses)
(light emitter; org. EL elements contg. elec. conductive polymers
having distyryl structures with high brightness and durability)

RN 443971-39-9 HCAPLUS

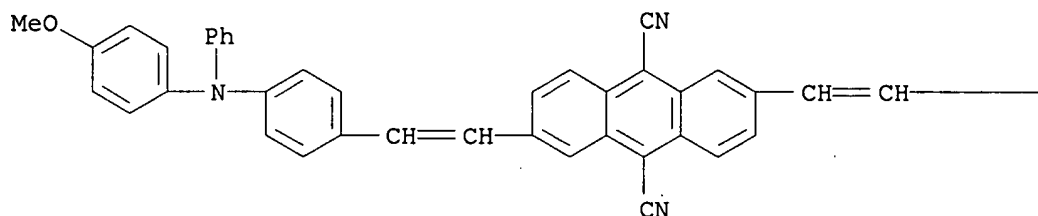
CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[[4-[4-[(2-ethylhexyl)oxy]-2,5-
diiodophenoxy]phenyl]phenylamino]phenyl]ethenyl]-6-[2-[4-[(4-
methoxyphenyl)phenylamino]phenyl]ethenyl]-, polymer with
1-[(2-ethylhexyl)oxy]-2,5-diiodo-4-methoxybenzene and 2,2'-[[2-[(2-
ethylhexyl)oxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[1,3,2-
dioxaborolane] (9CI) (CA INDEX NAME)

CM 1

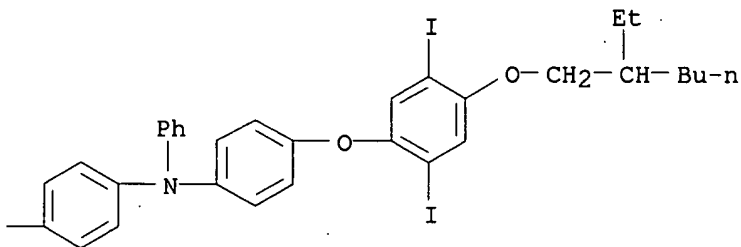
CRN 443971-38-8

CMF C71 H58 I2 N4 O3

PAGE 1-A



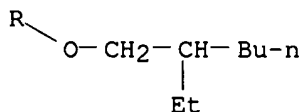
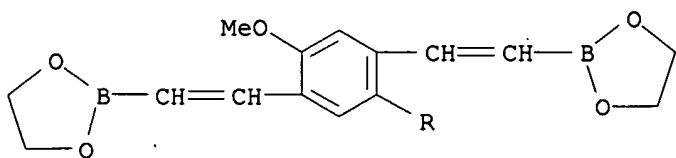
PAGE 1-B



CM 2

CRN 443971-32-2

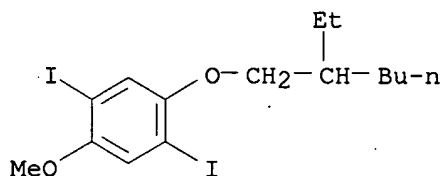
CMF C23 H34 B2 O6



CM 3

CRN 262355-6/-9

CMF C15 H22 I2 O2



RN 443971-41-3 HCAPLUS

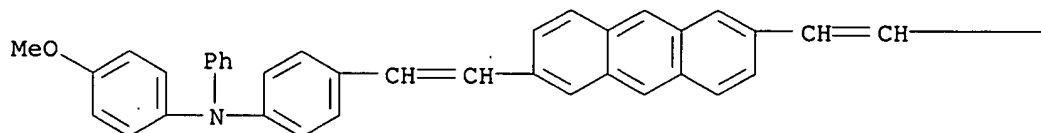
CN Benzenamine, N-[4-[4-[(2-ethylhexyl)oxy]-2,5-diiodophenoxy]phenyl]-4-[2-[6-[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]-2-anthracenyl]ethenyl]-N-phenyl-, polymer with 1-[(2-ethylhexyl)oxy]-2,5-diiodo-4-methoxybenzene and 2,2'-[[2-[(2-ethylhexyl)oxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

CM 1

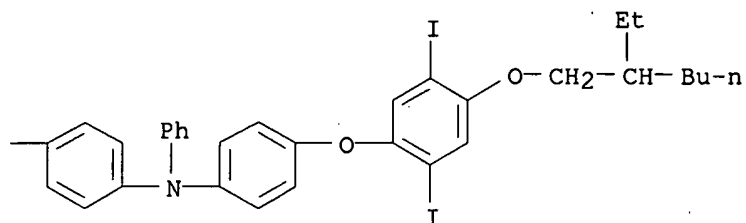
CRN 443971-40-2

CMF C69 H60 I2 N2 O3

PAGE 1-A



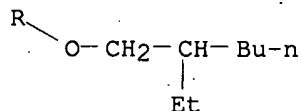
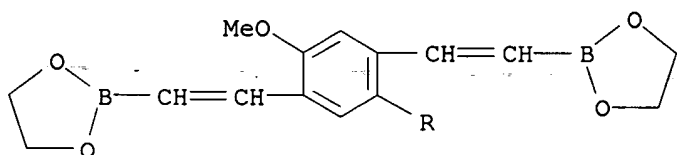
PAGE 1-B



CM 2

CRN 443971-32-2

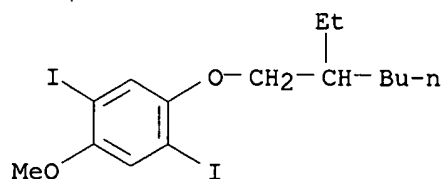
CMF C23 H34 B2 O6



CM 3

CRN 262355-67-9

CMF C15 H22 I2 O2



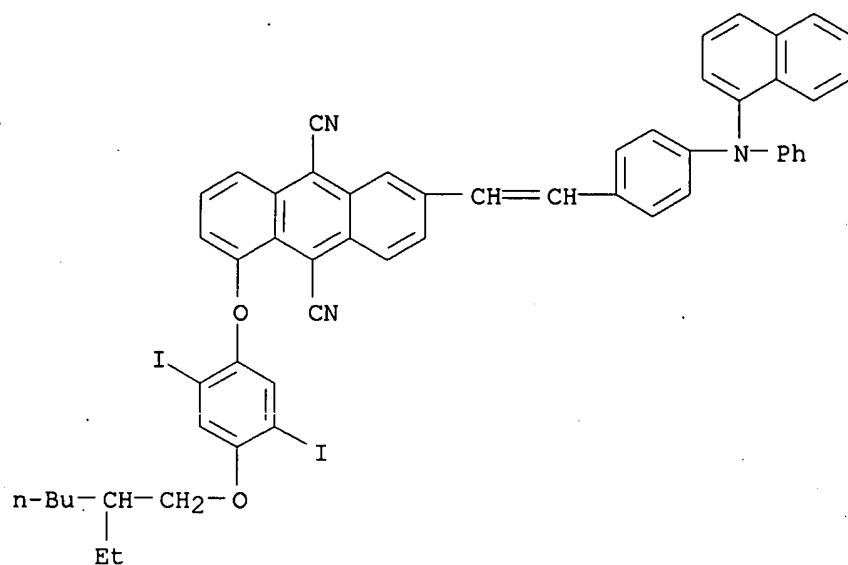
RN 443971-43-5 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 1-[4-[(2-ethylhexyl)oxy]-2,5-diiodophenoxy]-6-[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]-, polymer with 1-[(2-ethylhexyl)oxy]-2,5-diiodo-4-methoxybenzene and 2,2'-[[2-[(2-ethylhexyl)oxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

CM 1

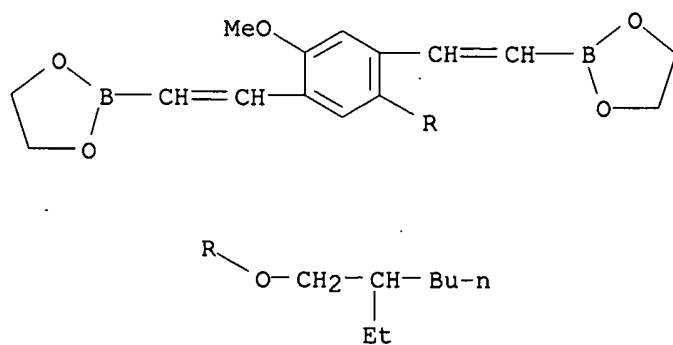
CRN 443971-42-4

CMF C54 H43 I2 N3 O2



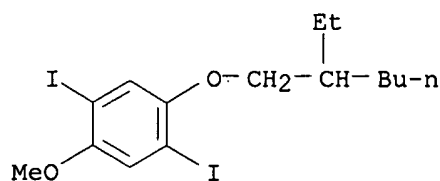
CM 2

CRN 443971-32-2
CMF C23 H34 B2 06



CM 3

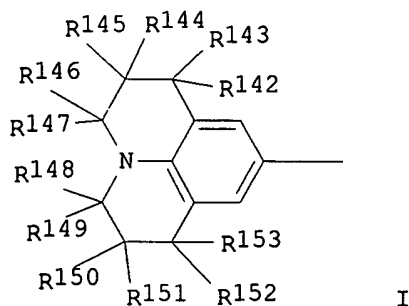
CRN 262355-67-9
CMF C15 H22 I2 O2



L6 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:349431 HCAPLUS
 DN 136:377566
 TI Red organic electroluminescence elements with good color stability and high brightness for displays
 IN Ishibashi, Tadashi; Ichimura, Mari; Tamura, Shinichiro; Ueda, Naoyuki
 PA Sony Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM H05B033-14
 ICS C09K011-06; H05B033-22
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 73

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002134276	A2	20020510	JP 2000-329902	20001030
PRAI	JP 2000-329902		20001030		
OS	MARPAT 136:377566				
GI					



AB The electroluminescence (EL) elements contain aminostyryl compds. Y1CH:CHX1CH:CHY2 and/or Y3CH:CHX2 [X1 = substituted anthracenylene (substituent = halo, nitro, cyano, CF3, etc.); X2 = (un)substituted Ph, naphthalenyl, anthracenyl, phenanthrenyl, pyrenyl (substituent = H, halo, nitro, cyano, CF3); Y1-3 = H, alkyl, aryl that may contain C6H4NZ1Z2, I, or (un)substituted Ph; Z1, Z2 = H, alkyl, aryl; R142-153 = H, alkyl, aryl, alkoxy, halo, etc.].
 ST org electroluminescence element red aminostyryl brightness; EL display aminostyryl phosphor red stability

IT Phosphors
(electroluminescent; red org. EL elements with good color stability and high brightness for displays)

IT Electroluminescent devices
(red-emitting; red org. EL elements with good color stability and high brightness for displays)

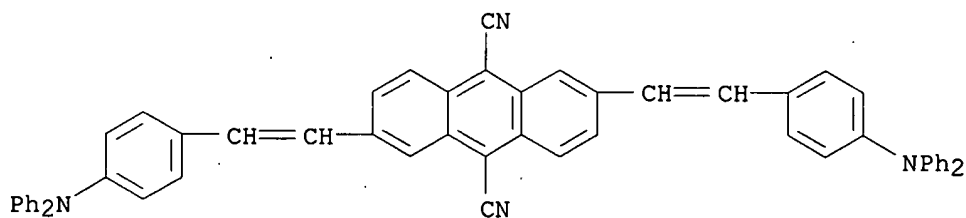
IT 4733-39-5
RL: TEM (Technical or engineered material use); USES (Uses)
(hole-blocking layer; red org. EL elements with good color stability and high brightness for displays)

IT 101247-14-7 127697-16-9 **253869-00-0** 261632-47-7
261632-87-5 **321709-39-1** **321735-48-2** 321735-63-1
422510-46-1 422510-49-4 **422510-67-6** 422510-70-1
422510-72-3 422510-75-6 422510-76-7 422510-78-9 422510-81-4
422510-83-6 422510-84-7 422510-85-8
RL: TEM (Technical or engineered material use); USES (Uses)
(red org. EL elements with good color stability and high brightness for displays)

IT **253869-00-0** **321709-39-1** **321735-48-2**
422510-67-6
RL: TEM (Technical or engineered material use); USES (Uses)
(red org. EL elements with good color stability and high brightness for displays)

RN 253869-00-0 HCAPLUS

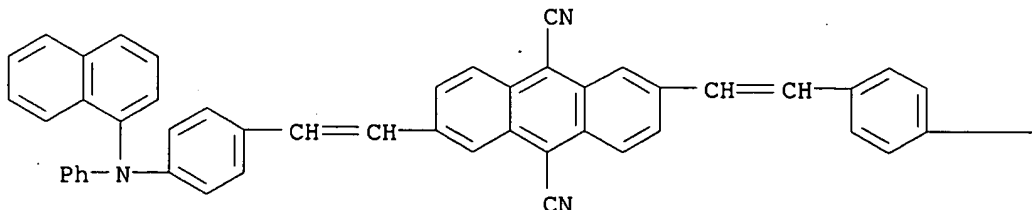
CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(diphenylamino)phenyl]ethenyl]-
(9CI) (CA INDEX NAME)



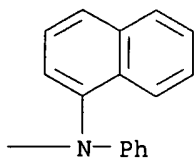
RN 321709-39-1 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

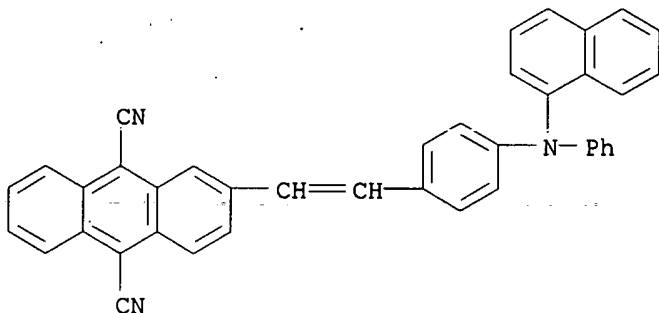
PAGE 1-A



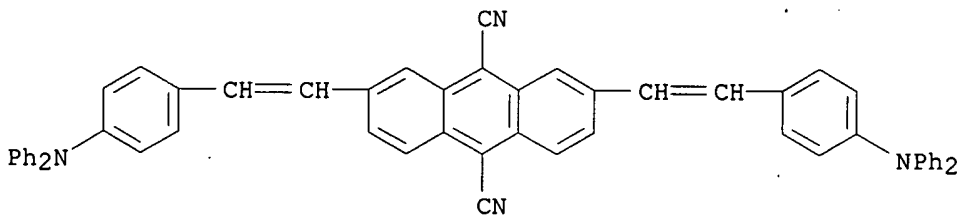
PAGE 1-B



RN 321735-48-2 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



RN 422510-67-6 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,7-bis[2-[4-(diphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:754109 HCAPLUS
 DN 135:311045
 TI Aminostyrylanthracene compound, synthetic intermediate for the compound, and manufacture of the compound and the intermediate
 IN Ichimura, Masatada; Ishibashi, Tadashi; Tamura, Shinichiro
 PA Sony Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 62 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C09B001-00
 ICS C07C209-78; C07C211-54; C07C213-08; C07C217-92; C07C253-30;
 C07C255-52; C07C255-58; C07F009-40; C09B057-00; C09K011-06;

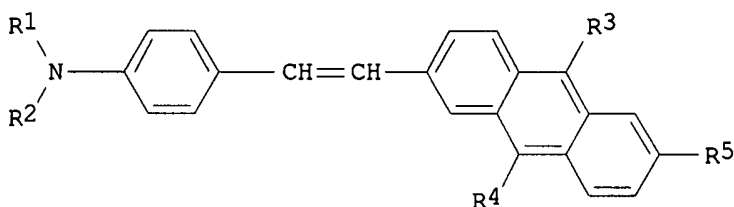
applicants

H05B033-14

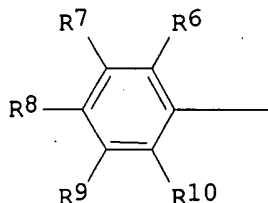
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001288377	A2	20011016	JP 2000-104582	20000406
	WO 2001077065	A1	20011018	WO 2001-JP3003	20010406
	W: KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1191015	A1	20020327	EP 2001-917850	20010406
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	JP 2000-104582	A	20000406		
	WO 2001-JP3003	W	20010406		
OS	MARPAT 135:311045				
GI					



I



II

- AB The aminostyrylanthracene compd. is that represented as I [R1 = aryl group II; R2 = aryl; R3, R4 = H, cyano, fluoroalkyl, NO2, halogen; R5 = H, C.gtoreq.1 (satd.) hydrocarbyl, (substituted) aryl; R6-R10 = H, C.gtoreq.1 (satd.) hydrocarbyloxy, hydrocarbyl, hydrocarbylamino, fluoroalkyl, (substituted) aryl], etc. The compd. is manufd. by condensation of aminobenzaldehyde and the claimed anthracene phosphonate ester, preferably by Wittig-Horner or Wiggig reaction. The phosphonate ester is manufd. by reaction of a halogenated aryl compd. and trialkyl phosphite or PPh3. The yellow to red light-emitting compd. is suitable for an electroluminescent display device.
- ST aminostyrylanthracene synthetic intermediate anthracene phosphonate; aminobenzaldehyde anthracene phosphonate reaction aminostyrylanthracene; yellow red light emitting electroluminescent phosphor; Wittig Horner reaction aminostyrylbenzene

IT Wittig reaction
(Wittig-Horner reaction; aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

IT Electroluminescent devices
Wittig reaction
(aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

IT) Phosphors
(electroluminescent; aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

IT 111651-30-0P 321735-48-2P 321735-49-3P
321735-50-6P 321735-51-7P 366793-10-4P
366793-12-6P 366793-14-8P 366793-16-0P
366793-18-2P 366793-19-3P 366793-20-6P
366793-21-7P 366793-22-8P 366793-23-9P
366793-24-0P 366793-25-1P 366793-26-2P
366793-27-3P 366793-28-4P 366793-29-5P
366793-30-8P 366793-31-9P 366793-32-0P
366793-33-1P 366793-34-2P 366793-35-3P
366793-36-4P 366793-37-5P 366793-38-6P
366793-39-7P 366793-40-0P 366793-41-1P
366793-42-2P 366793-43-3P 366793-44-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

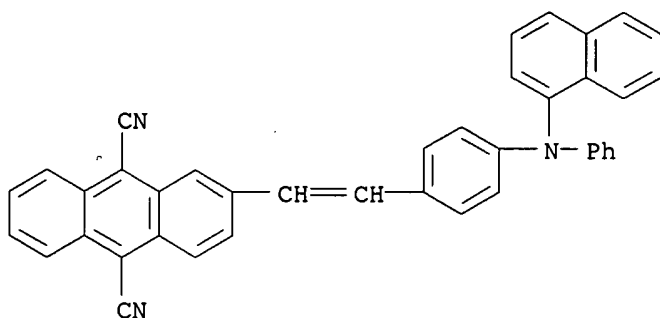
IT 120-21-8 603-35-0, Triphenylphosphine, reactions 73067-36-4
87755-82-6 131660-61-2 138249-95-3 178477-23-1 288626-96-0
366793-46-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(for prepn. of aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

IT 177839-46-2P 366793-45-5P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; for prepn. of aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

IT 321735-48-2P 321735-49-3P 321735-50-6P
321735-51-7P 366793-10-4P 366793-12-6P
366793-14-8P 366793-16-0P 366793-18-2P
366793-19-3P 366793-21-7P 366793-22-8P
366793-23-9P 366793-24-0P 366793-25-1P
366793-26-2P 366793-27-3P 366793-28-4P
366793-29-5P 366793-30-8P 366793-31-9P
366793-33-1P 366793-34-2P 366793-35-3P
366793-36-4P 366793-37-5P 366793-38-6P
366793-39-7P 366793-40-0P 366793-41-1P
366793-42-2P 366793-43-3P 366793-44-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aminostyrylanthracene compd. as electroluminescent phosphor manufd. from anthracene phoshonate and aminobenzaldehyde)

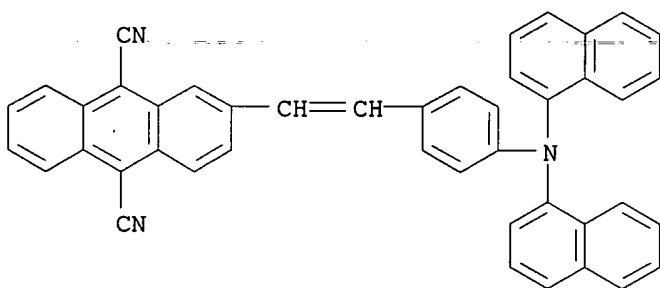
RN 321735-48-2 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



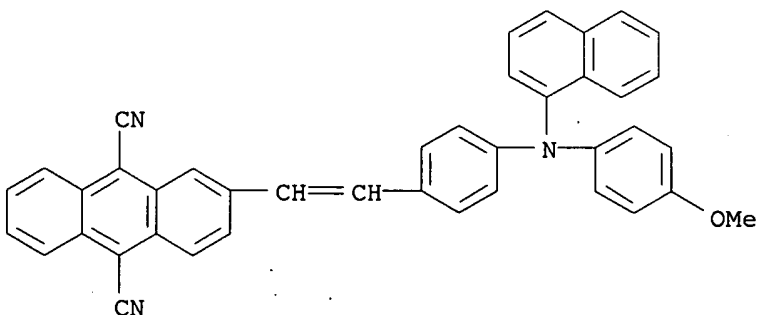
RN 321735-49-3 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(di-1-naphthalenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



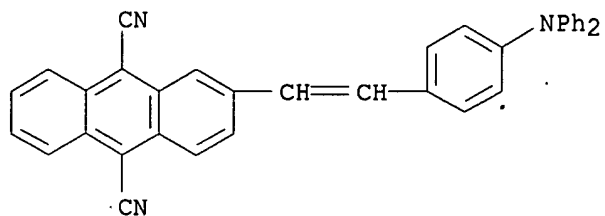
RN 321735-50-6 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[(4-methoxyphenyl)-1-naphthalenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



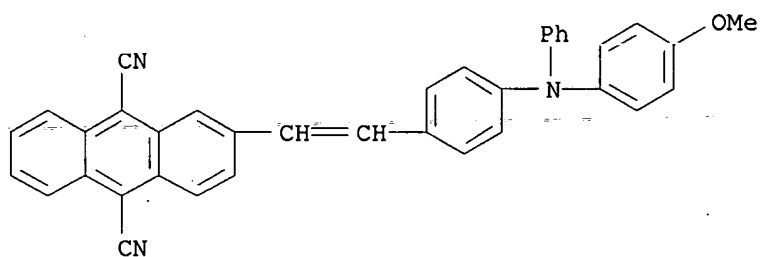
RN 321735-51-7 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(diphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



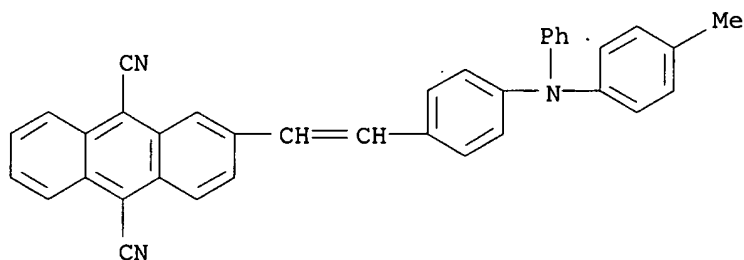
RN 366793-10-4 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



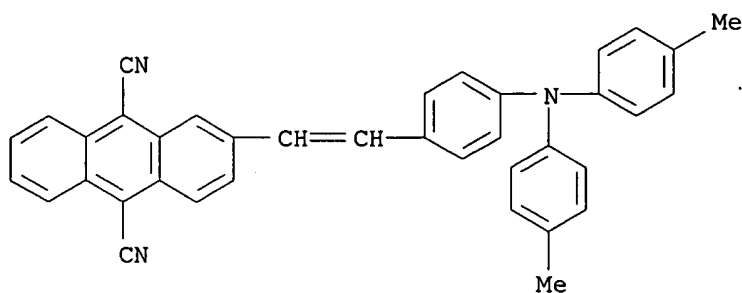
RN 366793-12-6 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[(4-methylphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



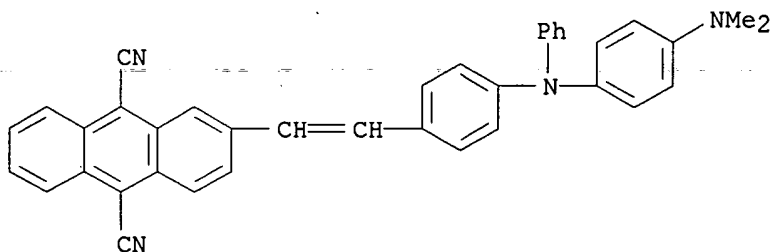
RN 366793-14-8 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[bis(4-methylphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



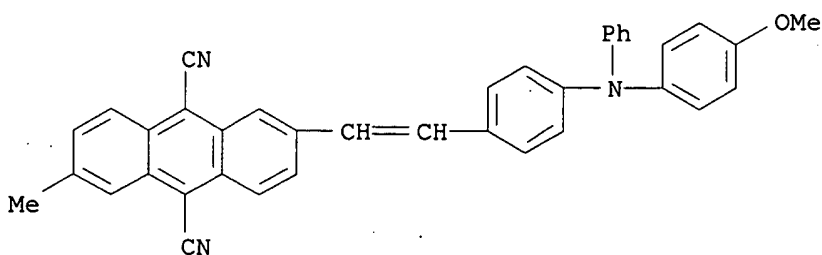
RN 366793-16-0 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[[4-(dimethylamino)phenyl]phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



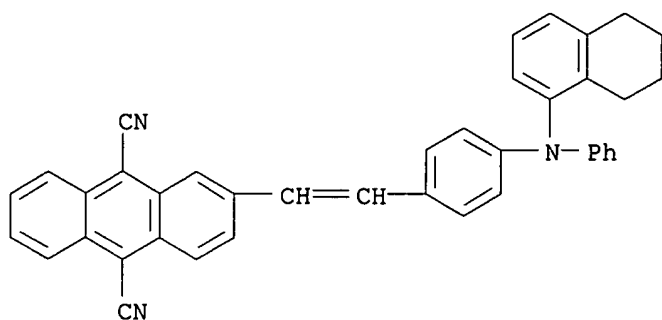
RN 366793-18-2 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]-6-methyl- (9CI) (CA INDEX NAME)



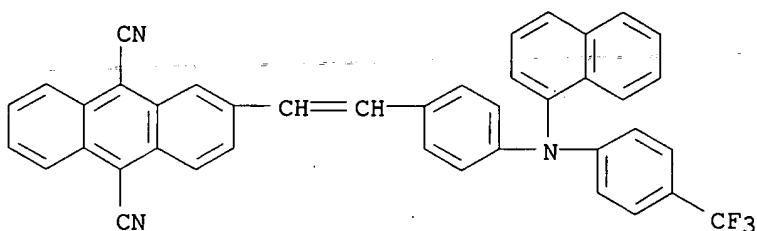
RN 366793-19-3 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[phenyl(5,6,7,8-tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



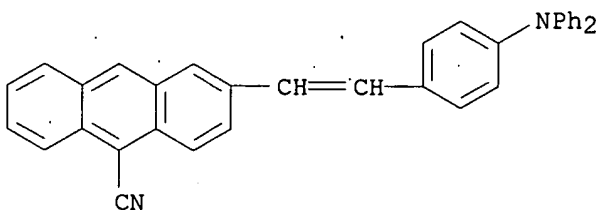
RN 366793-21-7 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[1-naphthalenyl][4-(trifluoromethyl)phenyl]amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



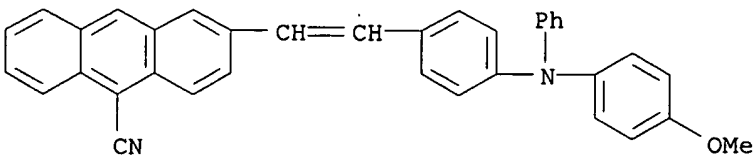
RN 366793-22-8 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-(diphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



RN 366793-23-9 HCAPLUS

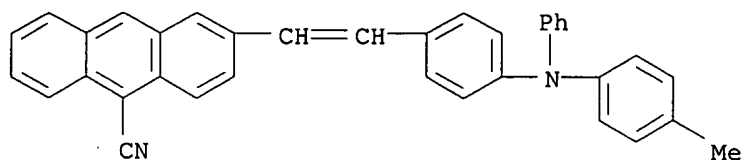
CN 9-Anthracenecarbonitrile, 3-[2-[4-((4-methoxyphenyl)phenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



RN 366793-24-0 HCAPLUS

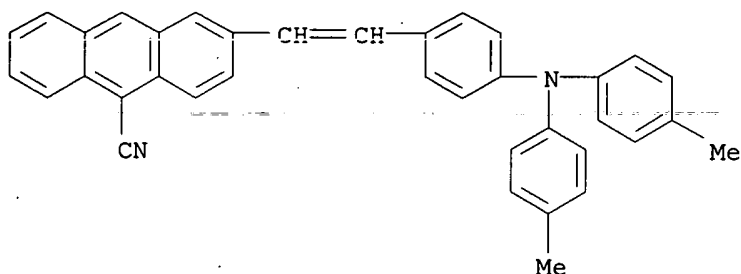
CN 9-Anthracenecarbonitrile, 3-[2-[4-((4-methylphenyl)phenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

nyl]- (9CI) (CA INDEX NAME)



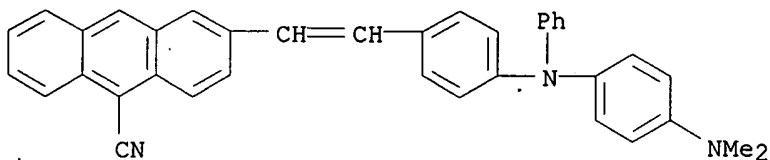
RN 366793-25-1 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-[bis(4-methylphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



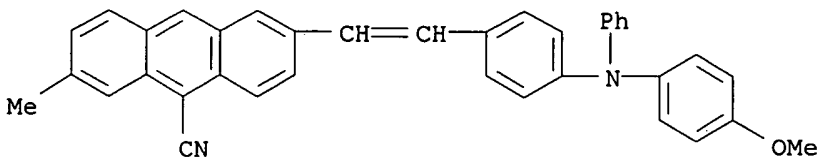
RN 366793-26-2 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-[[4-(dimethylamino)phenyl]phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



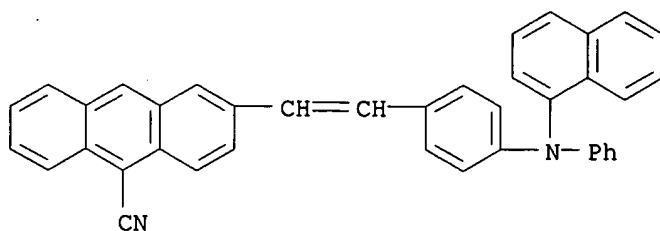
RN 366793-27-3 HCAPLUS

CN 9-Anthracenecarbonitrile, 6-[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]-2-methyl- (9CI) (CA INDEX NAME)



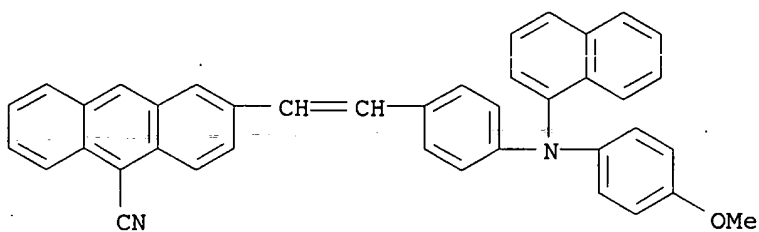
RN 366793-28-4 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



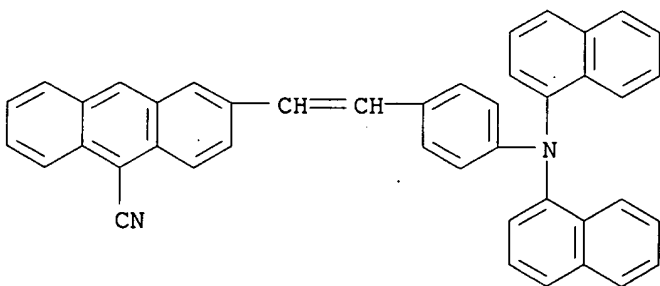
RN 366793-29-5 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-[(4-methoxyphenyl)-1-naphthalenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



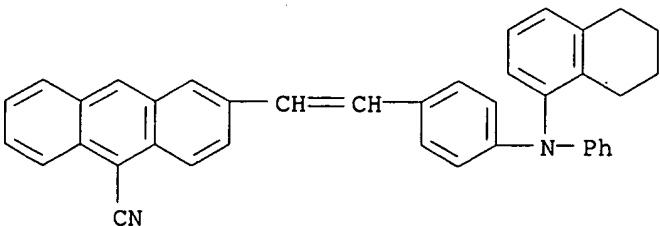
RN 366793-30-8 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-(di-1-naphthalenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



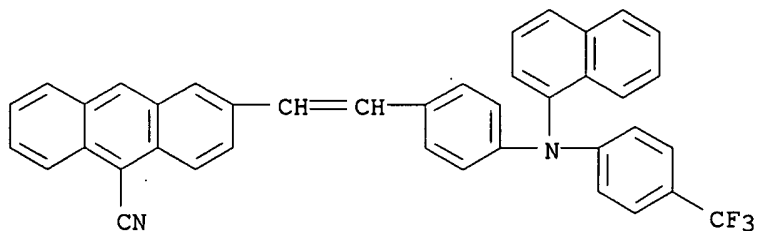
RN 366793-31-9 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-[phenyl(5,6,7,8-tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



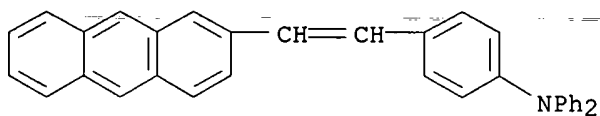
RN 366793-33-1 HCAPLUS

CN 9-Anthracenecarbonitrile, 3-[2-[4-[1-naphthalenyl[4-(trifluoromethyl)phenyl]amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



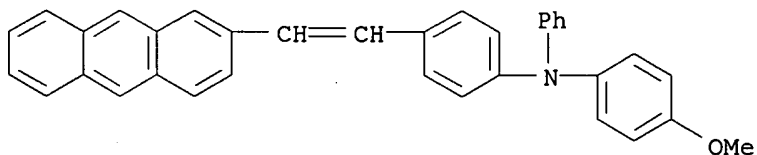
RN 366793-34-2 HCAPLUS

CN Benzenamine, 4-[2-(2-anthracenyl)ethenyl]-N,N-diphenyl- (9CI) (CA INDEX NAME)



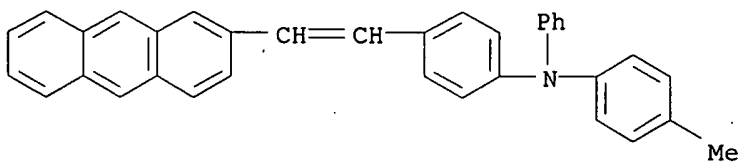
RN 366793-35-3 HCAPLUS

CN Benzenamine, 4-[2-(2-anthracenyl)ethenyl]-N-(4-methoxyphenyl)-N-phenyl- (9CI) (CA INDEX NAME)



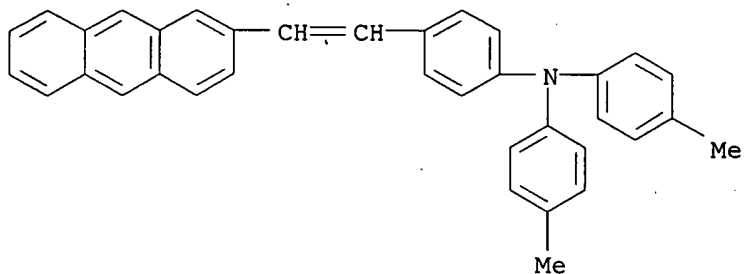
RN 366793-36-4 HCAPLUS

CN Benzenamine, 4-[2-(2-anthracenyl)ethenyl]-N-(4-methylphenyl)-N-phenyl- (9CI) (CA INDEX NAME)

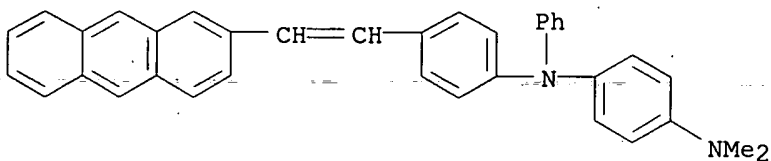


RN 366793-37-5 HCAPLUS

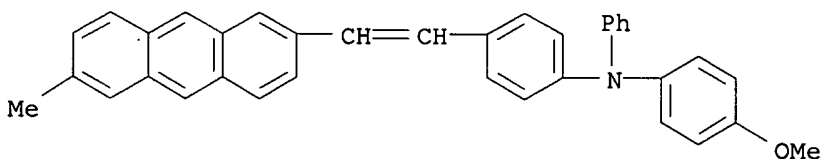
CN Benzenamine, 4-[2-(2-anthracenyl)ethenyl]-N,N-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)



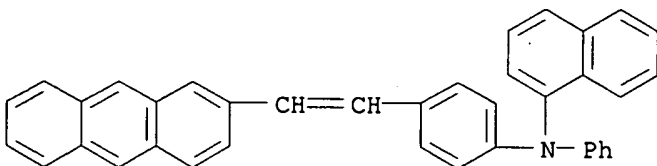
RN 366793-38-6 HCAPLUS
 CN 1,4-Benzenediamine, N-[4-[2-(2-anthracenyl)ethenyl]phenyl]-N',N'-dimethyl-N-phenyl- (9CI) (CA INDEX NAME)



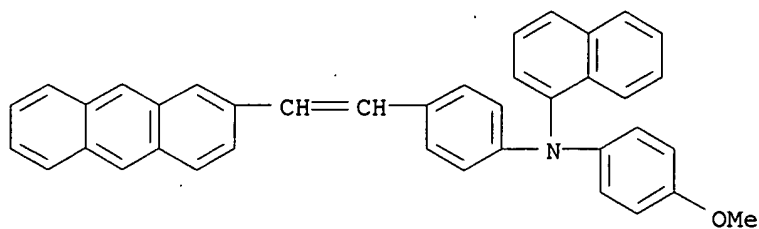
RN 366793-39-7 HCAPLUS
 CN Benzenamine, 4-methoxy-N-[4-[2-(6-methyl-2-anthracenyl)ethenyl]phenyl]-N-phenyl- (9CI) (CA INDEX NAME)



RN 366793-40-0 HCAPLUS
 CN 1-Naphthalenamine, N-[4-[2-(2-anthracenyl)ethenyl]phenyl]-N-phenyl- (9CI) (CA INDEX NAME)

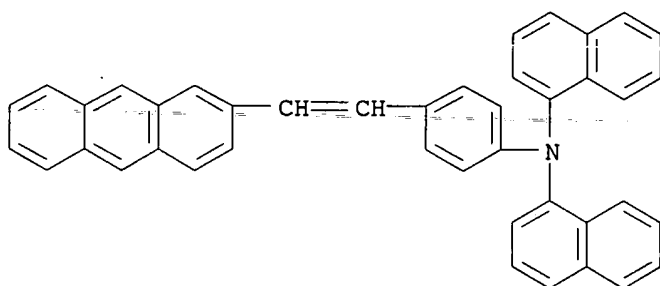


RN 366793-41-1 HCAPLUS
 CN 1-Naphthalenamine, N-[4-[2-(2-anthracenyl)ethenyl]phenyl]-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



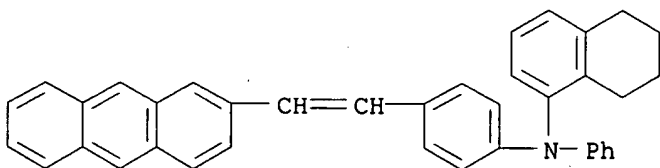
RN 366793-42-2 HCAPLUS

CN 1-Naphthalenamine, N-[4-[2-(2-anthracenyl)ethenyl]phenyl]-N-1-naphthalenyl-
(9CI) (CA INDEX NAME)



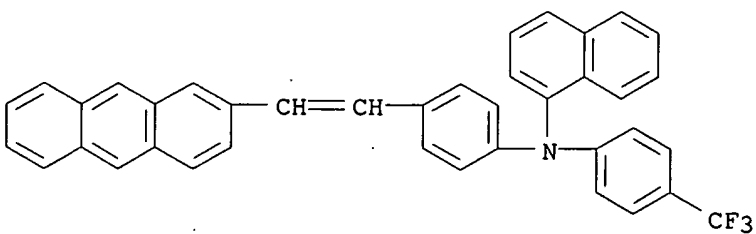
RN 366793-43-3 HCAPLUS

CN 1-Naphthalenamine, N-[4-[2-(2-anthracenyl)ethenyl]phenyl]-5,6,7,8-
tetrahydro-N-phenyl- (9CI) (CA INDEX NAME)



RN 366793-44-4 HCAPLUS

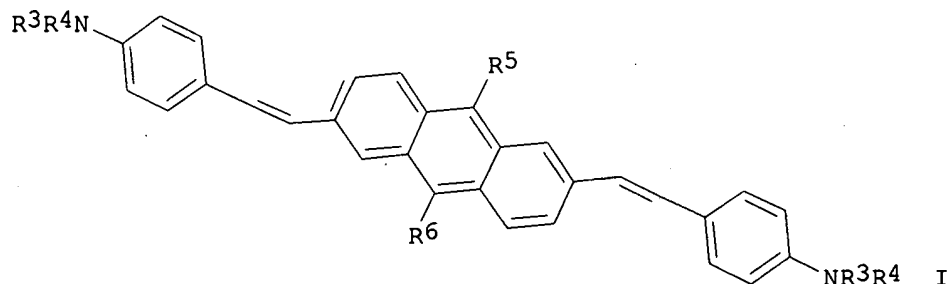
CN 1-Naphthalenamine, N-[4-[2-(2-anthracenyl)ethenyl]phenyl]-N-[4-
(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



AN 2001:261095 HCAPLUS
 DN 134:280615
 TI Preparation of bis(aminostyryl)anthracenes as organic luminescent materials.
 IN Ichimura, Mari; Ishibashi, Tadashi; Tamura, Shinichiro
 PA Sony Corporation, Japan
 SO Eur. Pat. Appl., 145 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C07C255-58
 ICS C07C255-59; C07C255-52; C07F009-40; C07F009-54
 CC 25-27 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 73, 74

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1090911	A2	20010411	EP 2000-121754	20001005
	EP 1090911	A3	20010808		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001106657	A2	20010417	JP 1999-285254	19991006
PRAI	JP 1999-285254	A	19991006		
OS	MARPAT 134:280615				
GI					



AB Title compds. e.g., (I; R2, R3 = unsubstituted aryl; R1, R4 = substituted aryl; R5, R6 = H, cyano, NO2, CF3, halo), were prepd. Thus, 9,10-dicyano-2,6-bis(diethylphosphonomethyl)anthracene (prepn. given) was stirred with NaH in THF/DMF; 4[-N-phenyl-N-(4-methoxyphenyl)amino]benzaldehyde in THF was added followed by 7 h stirring to give 14% I (R2, R3 = Ph; R1, R4 = 4-MeOC6H4; R5, R6 = cyano). This showed a fluorescence max. at 645 nm. Schematics of org. electroluminescent elements and a flat display are given.

ST aminostyrylanthracene prepn org luminescent material; display electroluminescent bisaminostyrylanthracene material; anthracene bisaminostyryl prepn org luminescent material

IT Phosphors
 (electroluminescent; prepn. of bis(aminostyryl)anthracenes as org. luminescent materials)

IT Electroluminescent devices
 (materials for electroluminescent displays; prepn. of bis(aminostyryl)anthracenes as org. luminescent materials)

IT 253868-51-8P 253868-96-1P 253869-00-0P

321709-36-8P 321709-39-1P 333426-57-6P
 333426-58-7P 333426-59-8P 333426-72-5P
 333426-73-6P 333426-74-7P 333426-75-8P
 333426-76-9P 333426-77-0P 333426-78-1P
 333426-79-2P 333426-80-5P 333426-81-6P
 333426-82-7P 333426-83-8P 333426-84-9P
 333426-85-0P 333426-86-1P 333426-87-2P
 333426-88-3P 333426-89-4P 333426-90-7P
 333426-91-8P 333426-92-9P 333426-93-0P
 333426-94-1P 333426-95-2P 333426-97-4P
 333426-99-6P 333427-01-3P 333427-03-5P
 333427-05-7P 333427-08-0P 333427-10-4P
 333427-12-6P 333427-16-0P 333427-18-2P
 333427-20-6P 333427-22-8P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(prepn. of bis(aminostyryl)anthracenes as org. luminescent materials)

IT 613-26-3 4181-05-9 87755-82-6 89115-21-9 138249-95-3 333426-67-8
 333426-68-9 333426-70-3 333426-71-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of bis(aminostyryl)anthracenes as org. luminescent materials)

IT 138308-91-5P 333426-60-1P 333426-61-2P 333426-62-3P 333426-64-5P
 333426-66-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of bis(aminostyryl)anthracenes as org. luminescent materials)

IT 253868-51-8P 253868-96-1P 253869-00-0P
 321709-36-8P 321709-39-1P 333426-57-6P
 333426-58-7P 333426-59-8P 333426-72-5P
 333426-73-6P 333426-74-7P 333426-75-8P
 333426-76-9P 333426-77-0P 333426-78-1P
 333426-79-2P 333426-80-5P 333426-81-6P
 333426-82-7P 333426-83-8P 333426-84-9P
 333426-85-0P 333426-86-1P 333426-87-2P
 333426-88-3P 333426-89-4P 333426-90-7P
 333426-91-8P 333426-92-9P 333426-93-0P
 333426-94-1P 333426-95-2P 333426-97-4P
 333426-99-6P 333427-01-3P 333427-03-5P
 333427-05-7P 333427-08-0P 333427-10-4P
 333427-12-6P 333427-16-0P 333427-18-2P
 333427-20-6P 333427-22-8P

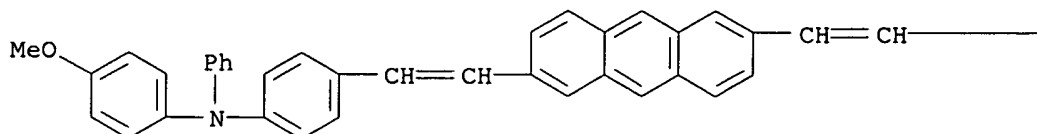
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(prepn. of bis(aminostyryl)anthracenes as org. luminescent materials)

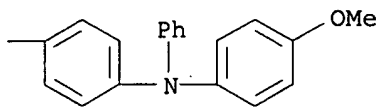
RN 253868-51-8 HCAPLUS

CN Benzenamine, 4,4'-(2,6-anthracenediyl-di-2,1-ethenediyl)bis[N-(4-methoxyphenyl)-N-phenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



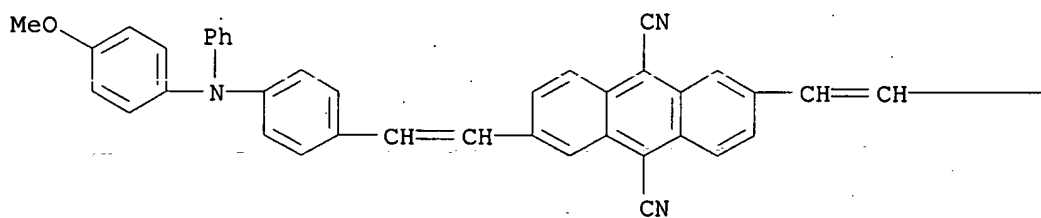
PAGE 1-B



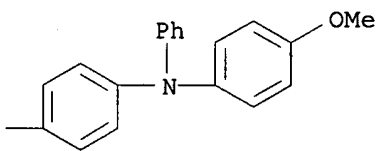
RN 253868-96-1 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

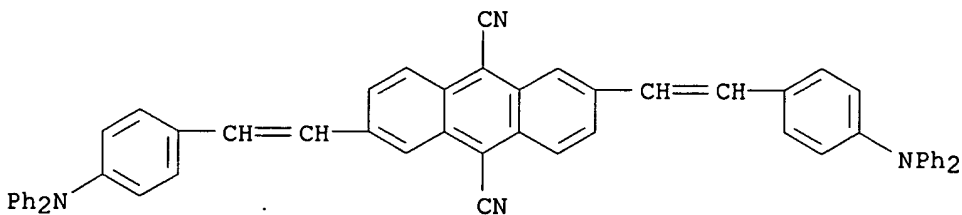


PAGE 1-B



RN 253869-00-0 HCAPLUS

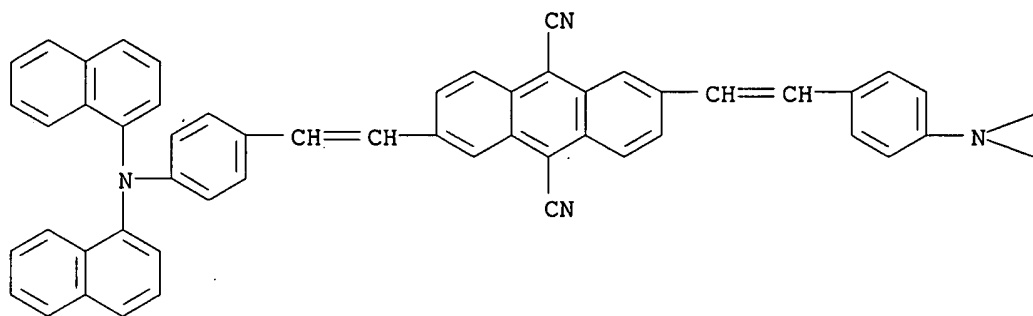
CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(diphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



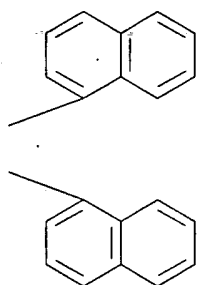
RN 321709-36-8 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(di-1-naphthalenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

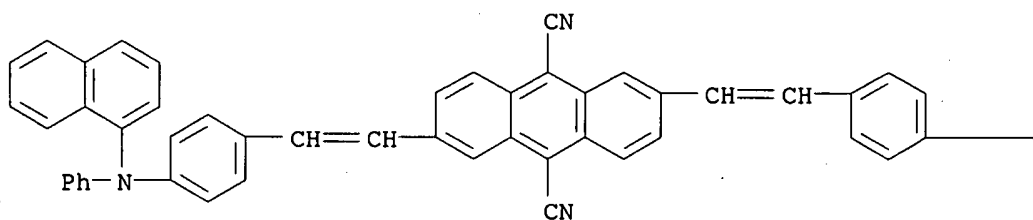


PAGE 1-B

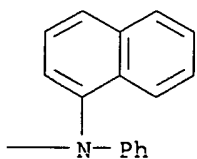


RN 321709-39-1 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



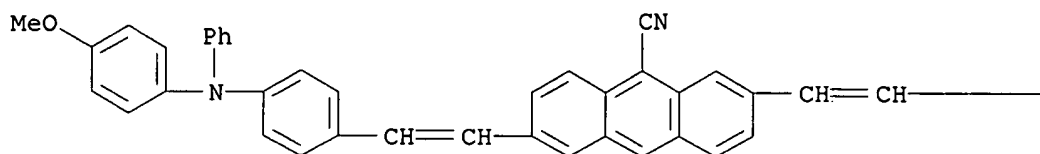
PAGE 1-B



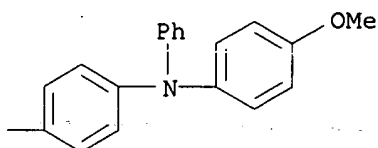
RN 333426-57-6 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

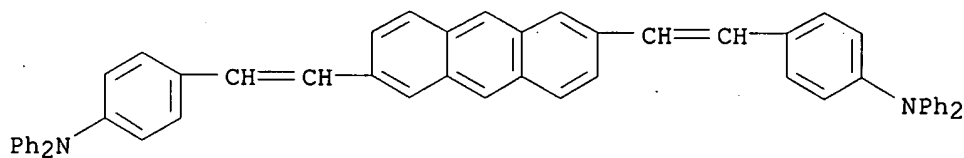


PAGE 1-B



RN 333426-58-7 HCAPLUS

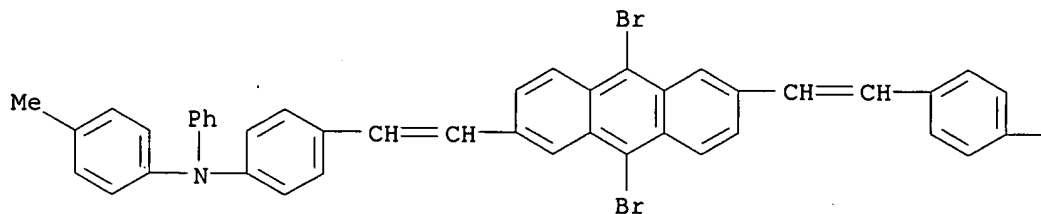
CN Benzenamine, 4,4'-(2,6-anthracenediyl-di-2,1-ethenediyl)bis[N,N-diphenyl]- (9CI) (CA INDEX NAME)



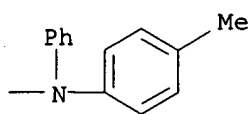
RN 333426-59-8 HCAPLUS

CN Benzenamine, 4,4'-[(9,10-dibromo-2,6-anthracenediyl)di-2,1-ethenediyl]bis[N-(4-methylphenyl)-N-phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



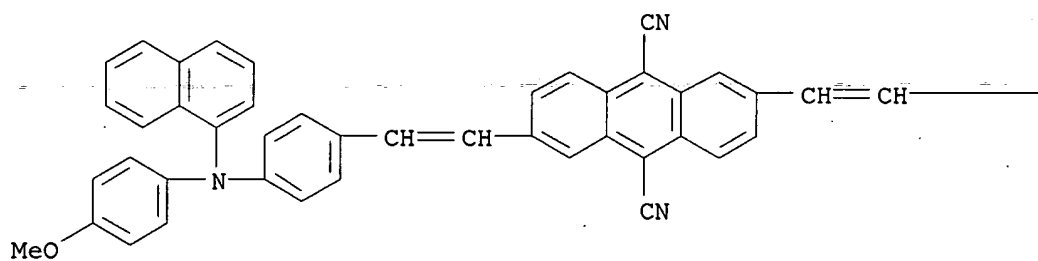
PAGE 1-B



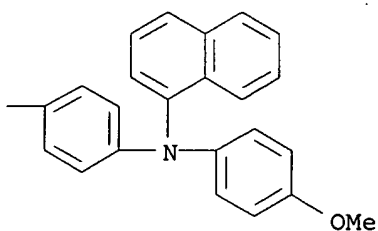
RN 333426-72-5 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)-1-naphthalenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



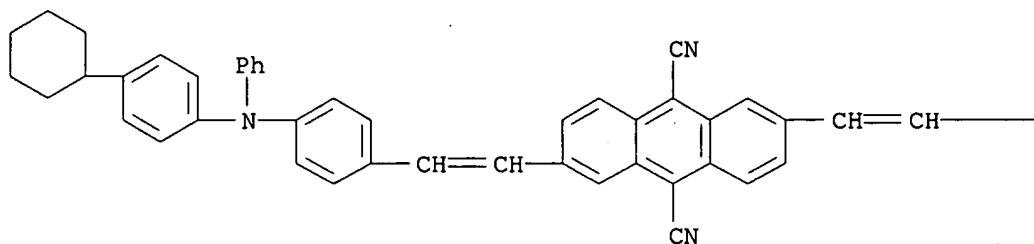
PAGE 1-B



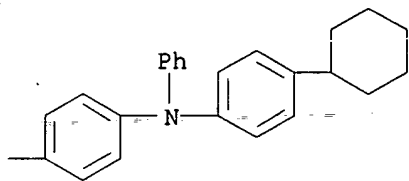
RN 333426-73-6 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-cyclohexylphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



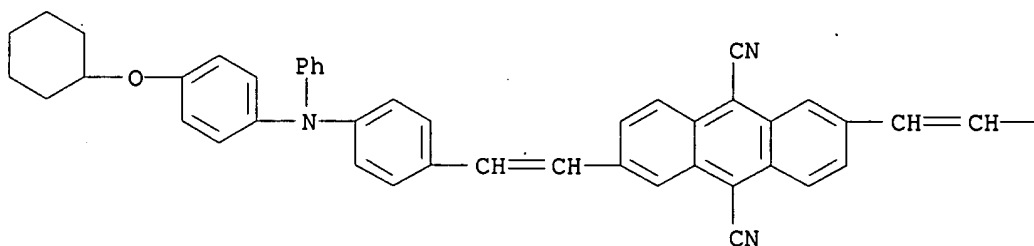
PAGE 1-B



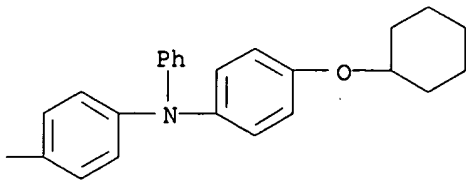
RN 333426-74-7 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[[4-(cyclohexyloxy)phenyl]phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

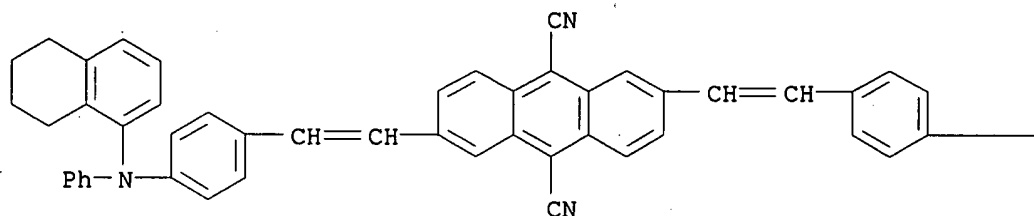


RN 333426-75-8 HCAPLUS

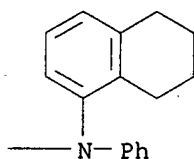
CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[phenyl(5,6,7,8-tetrahydro-1-

naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



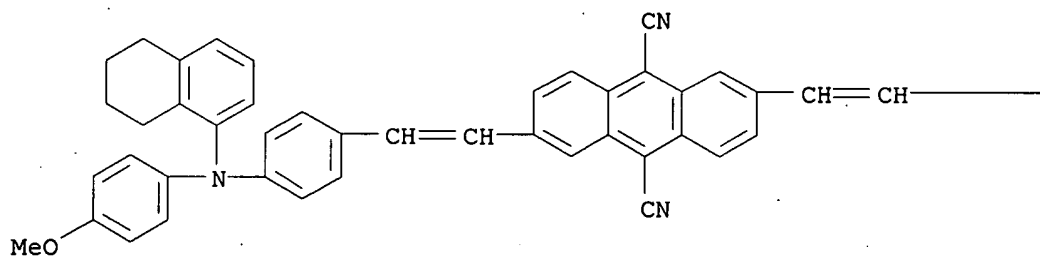
PAGE 1-B



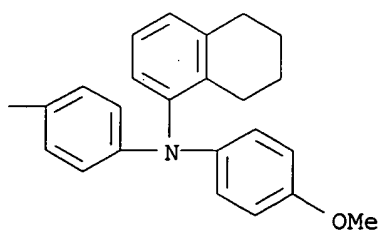
RN 333426-76-9 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)(5,6,7,8-tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

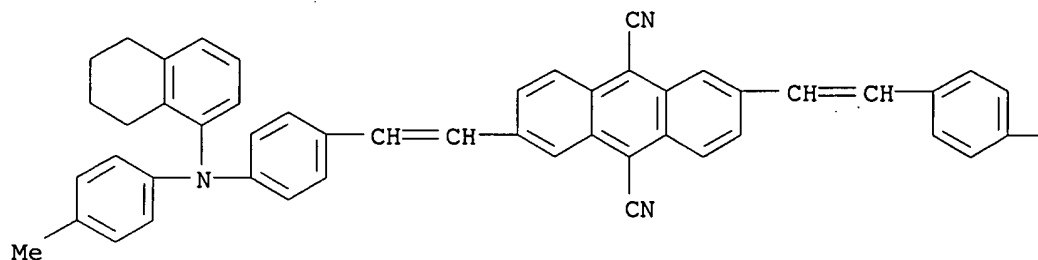


RN 333426-77-0 HCAPLUS

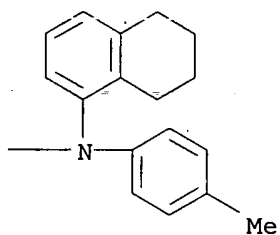
CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methylphenyl)(5,6,7,8-

tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

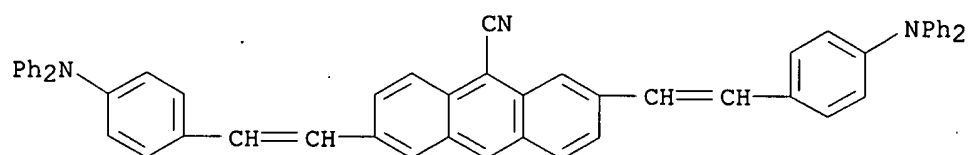


PAGE 1-B



RN 333426-78-1 HCAPLUS

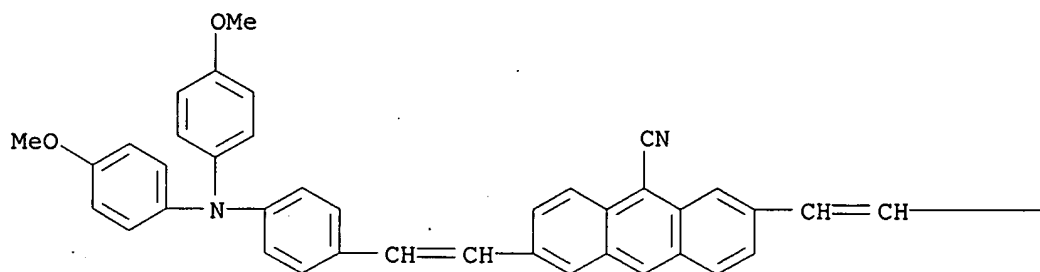
CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-(diphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



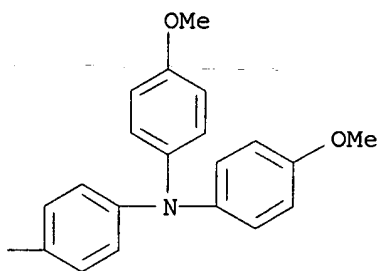
RN 333426-79-2 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[bis(4-methoxyphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



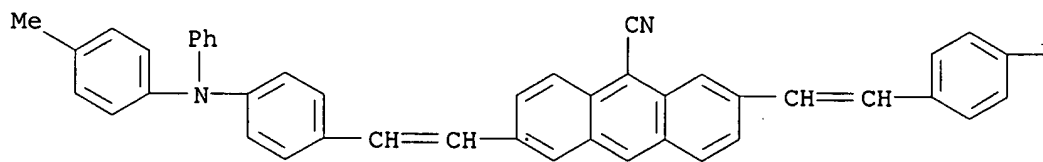
PAGE 1-B



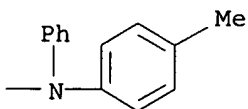
RN 333426-80-5 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[(4-methylphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



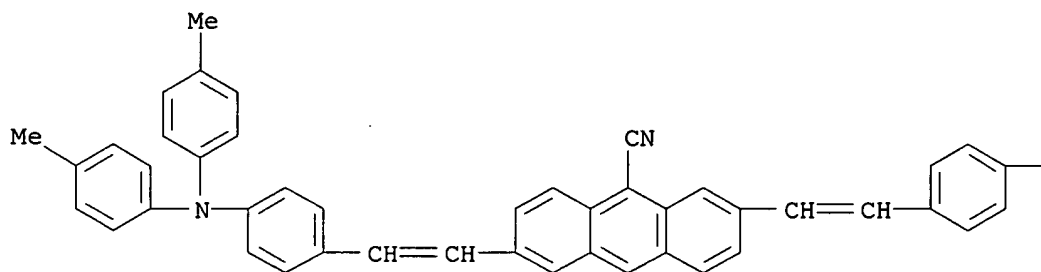
PAGE 1-B



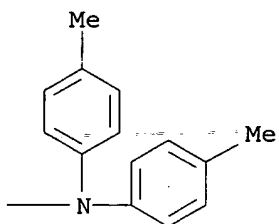
RN 333426-81-6 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[bis(4-methylphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



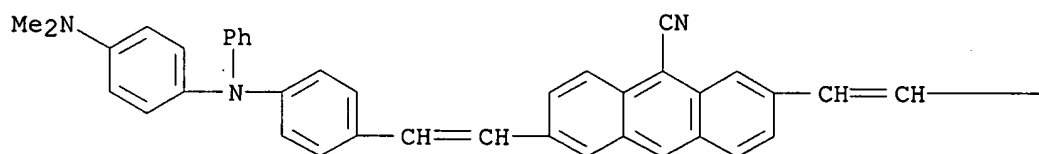
PAGE 1-B



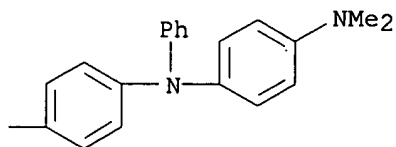
RN 333426-82-7 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[[4-(dimethylamino)phenyl]phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



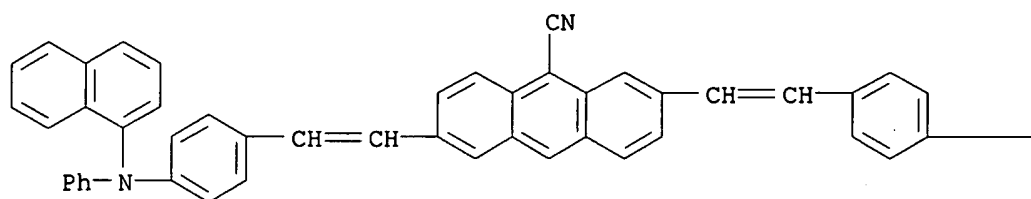
PAGE 1-B



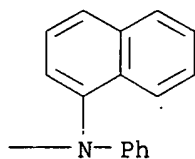
RN 333426-83-8 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

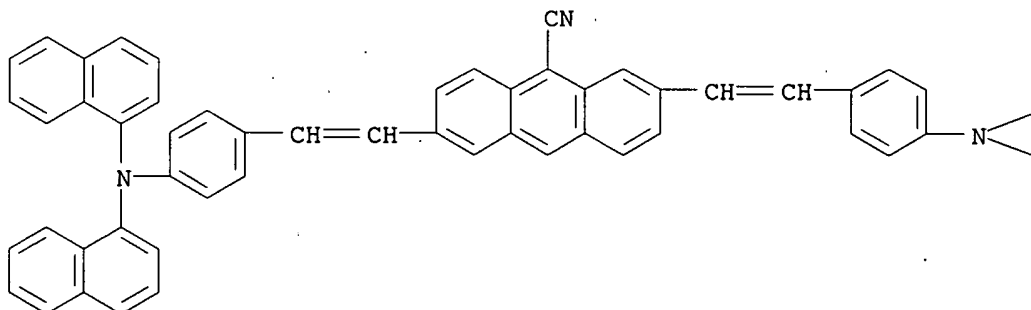


PAGE 1-B

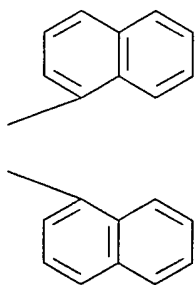


RN 333426-84-9 HCAPLUS
 CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-(di-1-naphthalenylamino)phenyl]ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



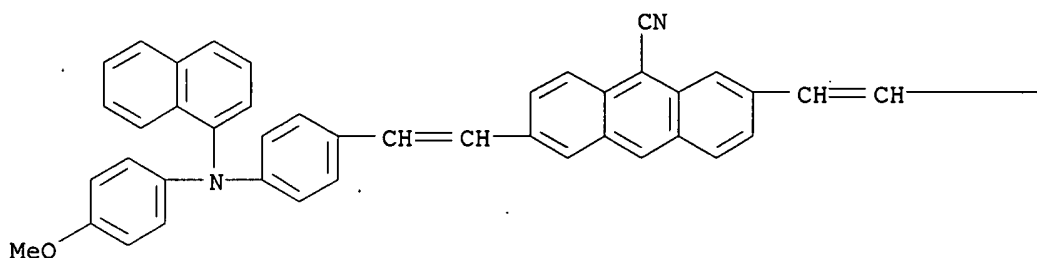
PAGE 1-B



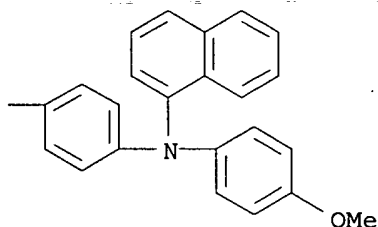
RN 333426-85-0 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)-1-naphthalenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



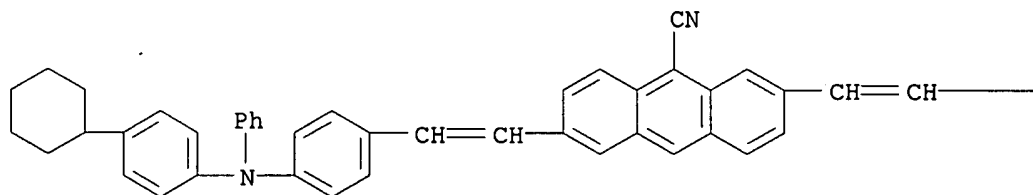
PAGE 1-B



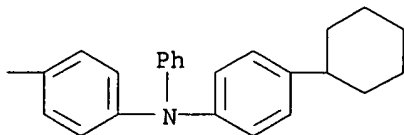
RN 333426-86-1 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[(4-cyclohexylphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



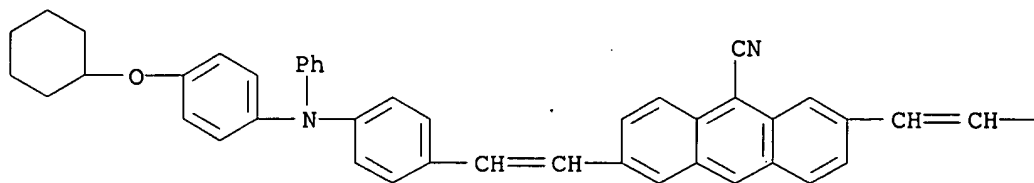
PAGE 1-B



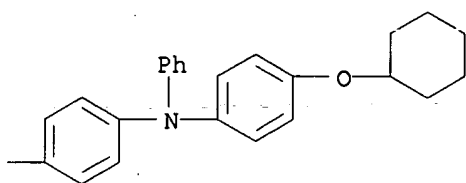
RN 333426-87-2 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[[4-(cyclohexyloxy)phenyl]phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



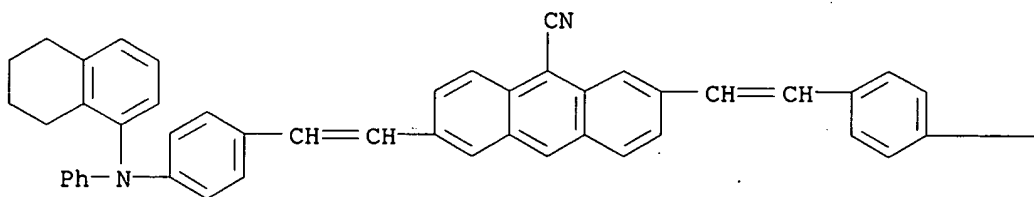
PAGE 1-B



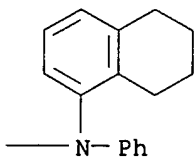
RN 333426-88-3 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[phenyl(5,6,7,8-tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



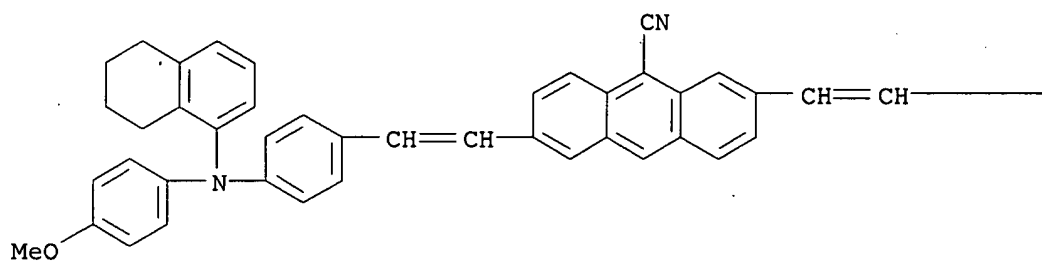
PAGE 1-B



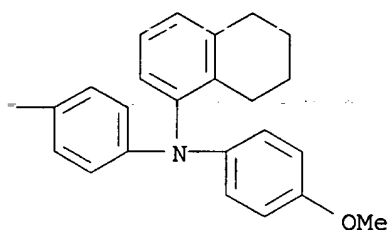
RN 333426-89-4 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)(5,6,7,8-tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



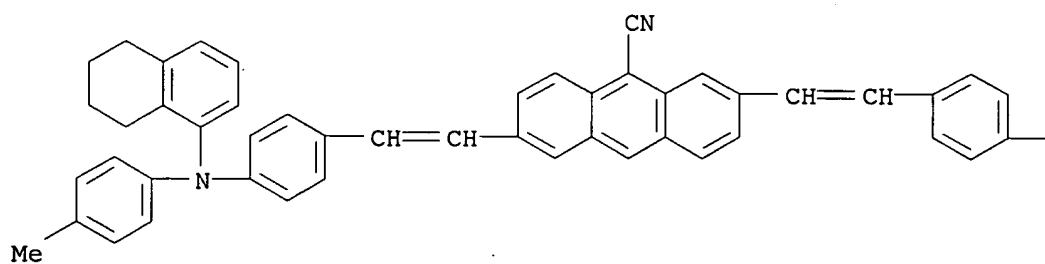
PAGE 1-B



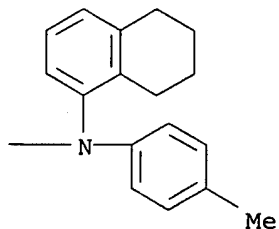
RN 333426-90-7 HCAPLUS

CN 9-Anthracenecarbonitrile, 2,6-bis[2-[4-[(4-methylphenyl)(5,6,7,8-tetrahydro-1-naphthalenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



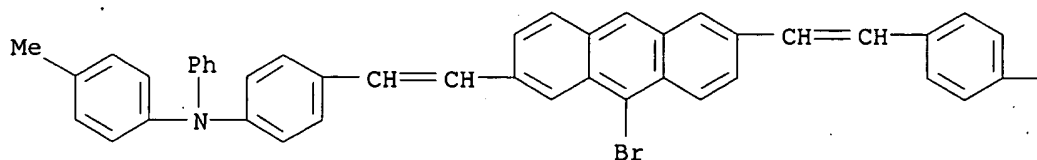
PAGE 1-B



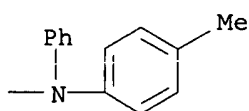
RN 333426-91-8 HCAPLUS

CN Benzenamine, 4,4'-[(9-bromo-2,6-anthracenediyl)di-2,1-ethenediyl]bis[N-(4-methylphenyl)-N-phenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



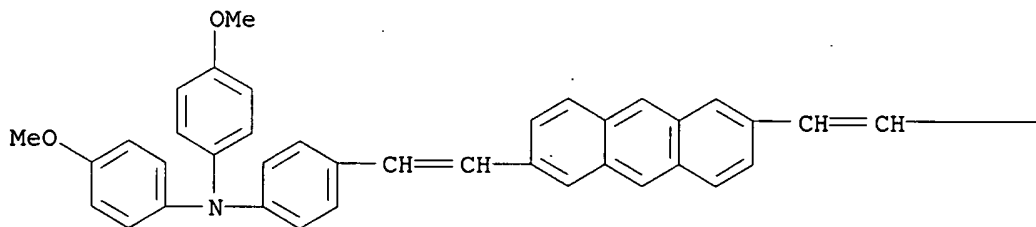
PAGE 1-B



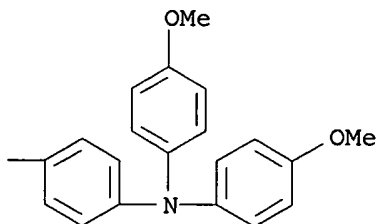
RN 333426-92-9 HCAPLUS

CN Benzenamine, 4,4'-(2,6-anthracenediyl)di-2,1-ethenediyl]bis[N,N-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



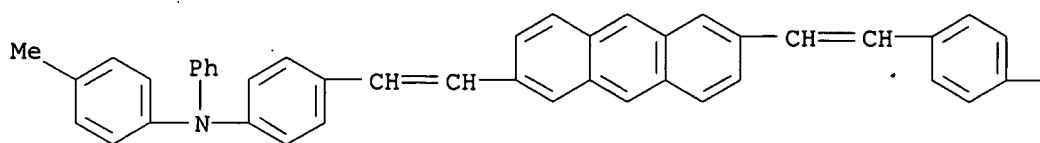
PAGE 1-B



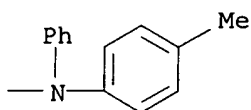
RN 333426-93-0 HCAPLUS

CN Benzenamine, 4,4'-(2,6-anthracenediyl)di-2,1-ethenediyl]bis[N-(4-methylphenyl)-N-phenyl- (9CI) (CA INDEX NAME)

PAGE 1-A

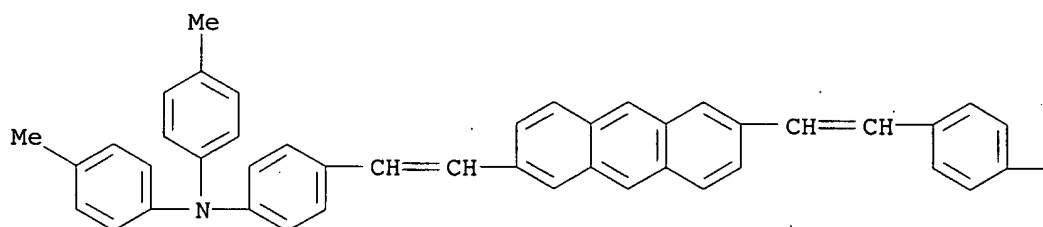


PAGE 1-B

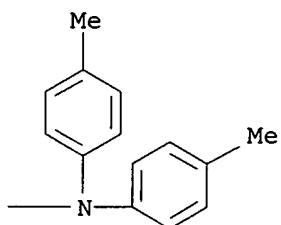


RN 333426-94-1 HCAPLUS
 CN Benzenamine, 4,4'-(2,6-anthracenediyl-di-2,1-ethenediyl)bis[N,N-bis(4-methylphenyl)]-(9CI) (CA INDEX NAME)

PAGE 1-A

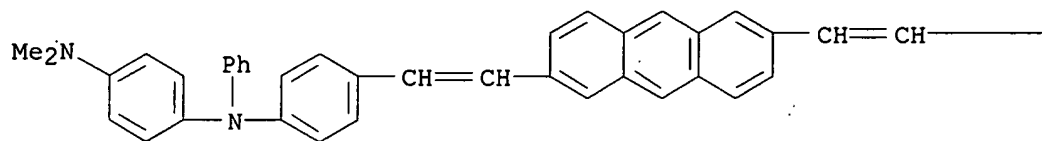


PAGE 1-B

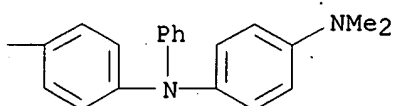


RN 333426-95-2 HCAPLUS
 CN 1,4-Benzenediamine, N,N'-(2,6-anthracenediylbis(2,1-ethenediyl-4,1-phenylene))bis[N,N'-dimethyl-N-phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



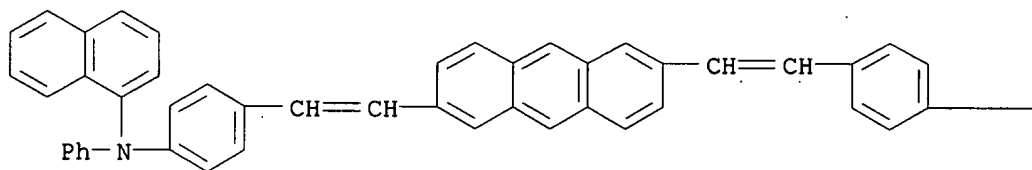
PAGE 1-B



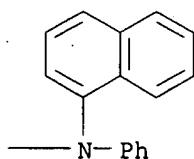
RN 333426-97-4 HCAPLUS

CN 1-Naphthalenamine, N,N'-[2,6-anthracenediylbis(2,1-ethenediyl-4,1-phenylene)]bis[N-phenyl- (9CI)] (CA INDEX NAME)

PAGE 1-A



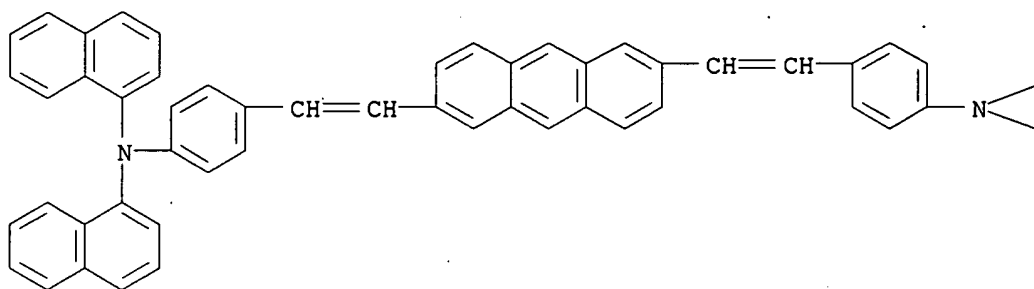
PAGE 1-B



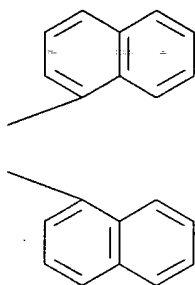
RN 333426-99-6 HCAPLUS

CN 1-Naphthalenamine, N,N'-[2,6-anthracenediylbis(2,1-ethenediyl-4,1-phenylene)]bis[N-1-naphthalenyl- (9CI)] (CA INDEX NAME)

PAGE 1-A

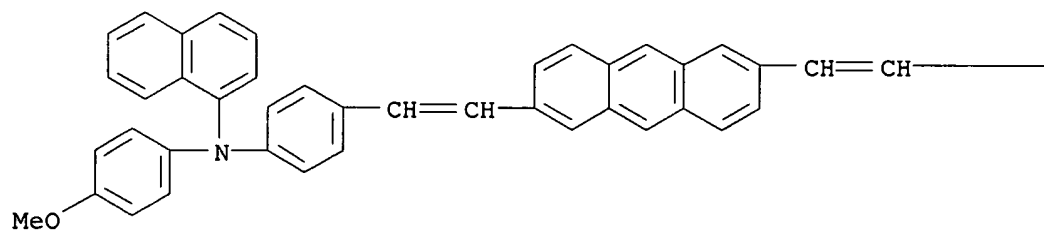


PAGE 1-B

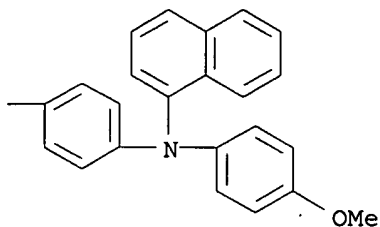


RN 333427-01-3 HCAPLUS
CN 1-Naphthalenamine, N,N'-[2,6-anthracenediylbis(2,1-ethenediyl)-4,1-phenylene]]bis[N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

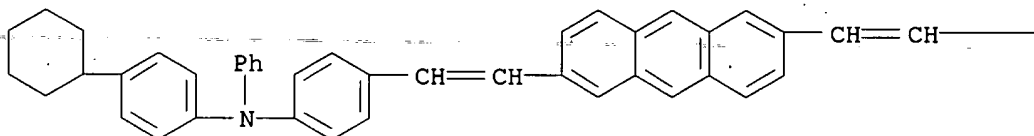


PAGE 1-B

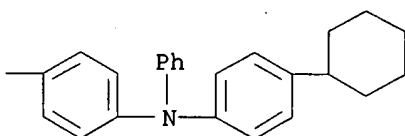


RN 333427-03-5 HCAPLUS
 CN Benzenamine, 4,4'-(2,6-anthracenediyl-di-2,1-ethenediyl)bis[N-(4-cyclohexylphenyl)-N-phenyl- (9CI)] (CA INDEX NAME)

PAGE 1-A

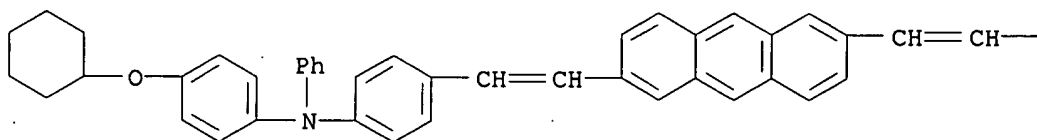


PAGE 1-B

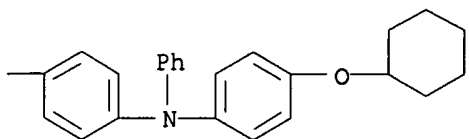


RN 333427-05-7 HCAPLUS
 CN Benzenamine, 4,4'-(2,6-anthracenediyl-di-2,1-ethenediyl)bis[N-(4-(cyclohexyloxy)phenyl)-N-phenyl- (9CI)] (CA INDEX NAME)

PAGE 1-A



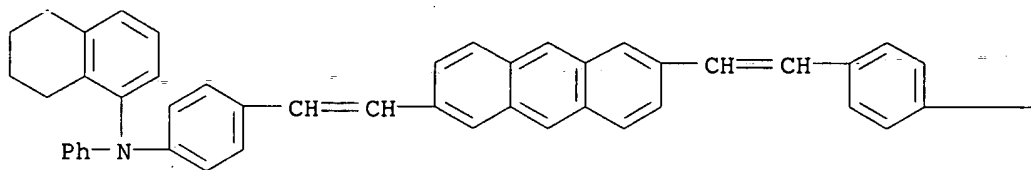
PAGE 1-B



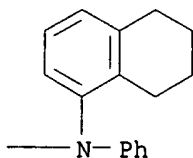
RN 333427-08-0 HCAPLUS

CN 1-Naphthalenamine, N,N'-[2,6-anthracenediylbis(2,1-ethenediyl-4,1-phenylene)]bis[5,6,7,8-tetrahydro-N-phenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



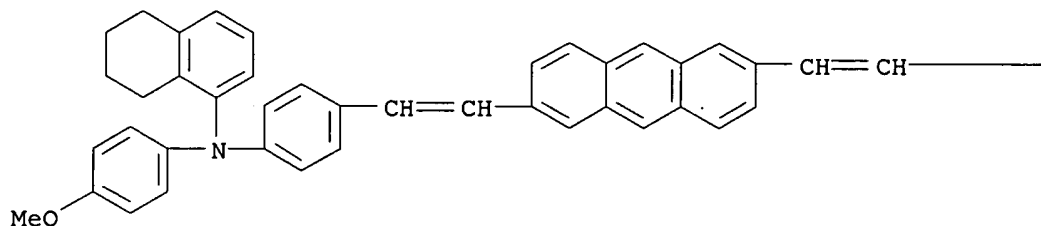
PAGE 1-B



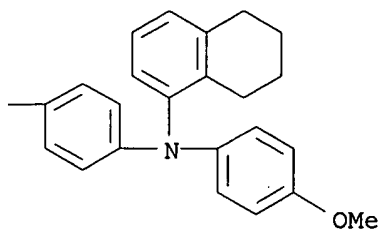
RN 333427-10-4 HCAPLUS

CN 1-Naphthalenamine, N,N'-[2,6-anthracenediylbis(2,1-ethenediyl-4,1-phenylene)]bis[5,6,7,8-tetrahydro-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

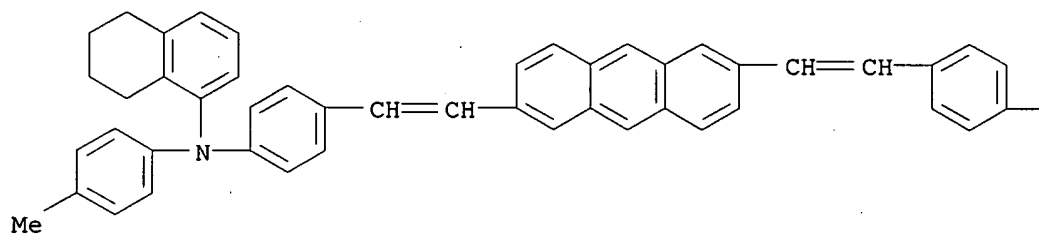


PAGE 1-B

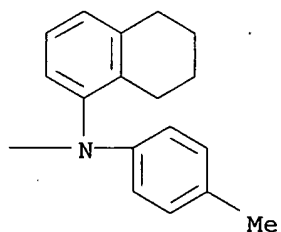


RN 333427-12-6 HCAPLUS
 CN 1-Naphthalenamine, N,N'-[2,6-anthracenediylbis(2,1-ethenediyl)-4,1-phenylene]bis[5,6,7,8-tetrahydro-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

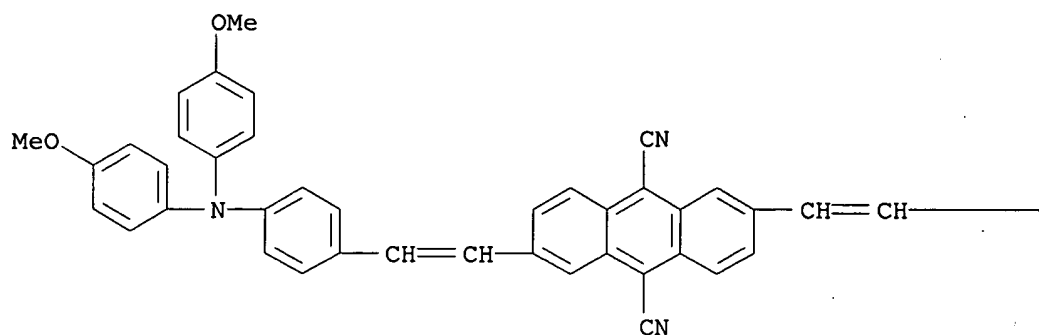


PAGE 1-B

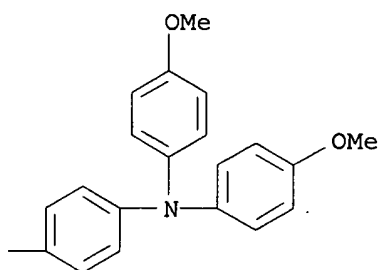


RN 333427-16-0 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[bis(4-methoxyphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

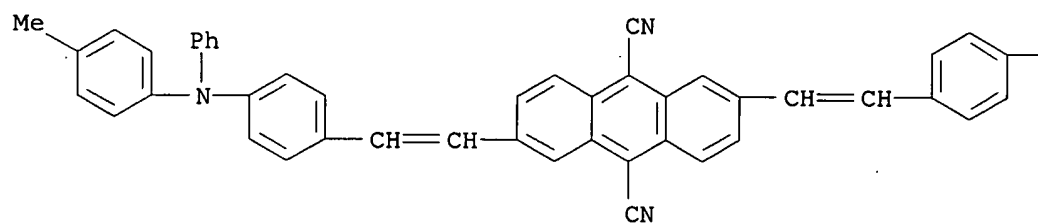


PAGE 1-B

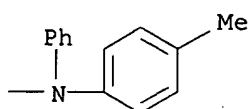


RN 333427-18-2 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methylphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



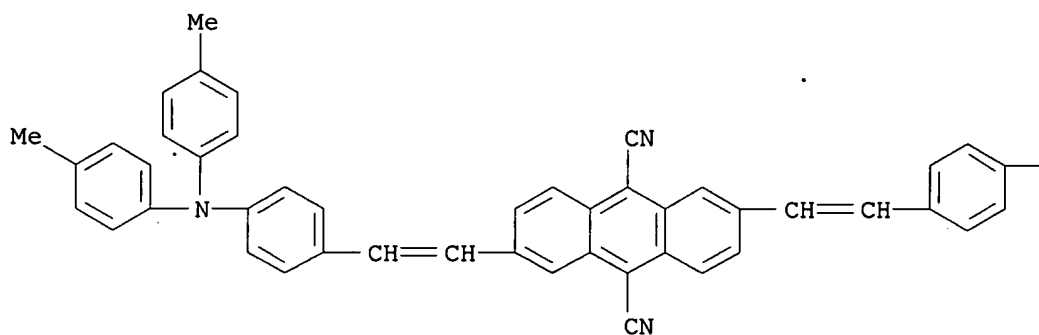
PAGE 1-B



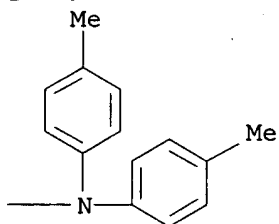
RN 333427-20-6 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[bis(4-methylphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



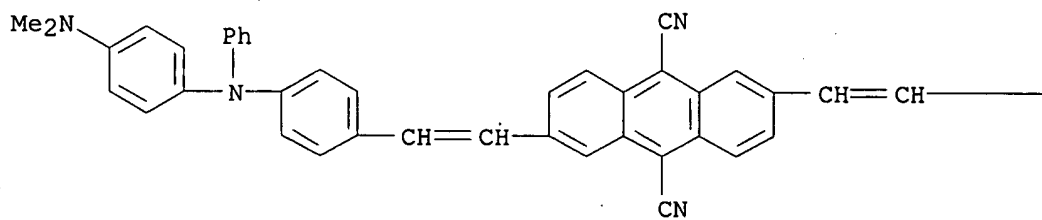
PAGE 1-B



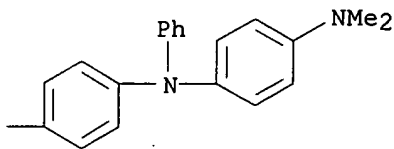
RN 333427-22-8 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[[4-(dimethylamino)phenyl]phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

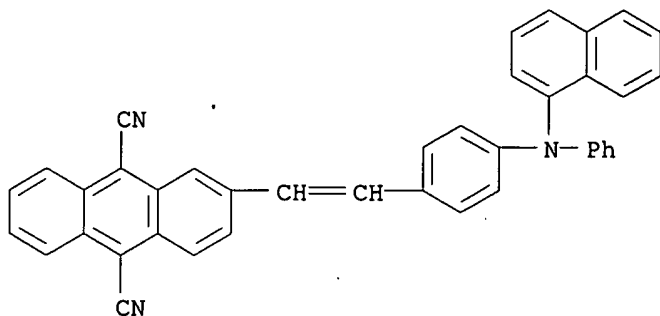


PAGE 1-B



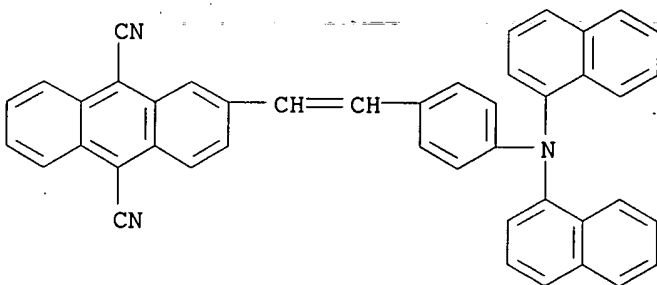
L6 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:78060 HCAPLUS
 DN 134:139024
 TI Organic electroluminescent device
 IN Ishibashi, Tadashi; Ichimura, Mari; Tamura, Shinichiro
 PA Sony Corp., Japan
 SO Eur. Pat. Appl., 46 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C09K011-06
 ICS H05B033-14
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1072669	A2	20010131	EP 2000-402172	20000728
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	TW 480896	B	20020321	TW 2000-89113981	20000713
	JP 2001110570	A2	20010420	JP 2000-229657	20000728
	CN 1283073	A	20010207	CN 2000-122137	20000731
PRAI	JP 1999-216306	A	19990730		
OS	MARPAT 134:139024				
AB	Org. electroluminescent devices are described which incorporate at least one styryl compd. R1R2N-C6H4CH:CHX [R1,2 = (un)substituted Ph or naphthyl; X = (un)substituted aryl or cyclic hydrocarbon group].				
ST	org electroluminescent device styryl compd				
IT	Electroluminescent devices (org. electroluminescent devices employing styryl compds.)				
IT	2085-33-8, Aluminum tris(8-hydroxyquinolino) 7439-95-4, Magnesium, uses 7440-22-4, Silver, uses 50926-11-9, ITO 65181-78-4, TPD 123847-85-8, .alpha.-NPD 321735-48-2 321735-49-3 321735-50-6 321735-51-7 321735-52-8 321735-53-9 321735-54-0 321735-55-1 321735-56-2 321735-57-3 321735-58-4 321735-59-5 321735-60-8 321735-61-9 321735-63-1 321735-64-2 321735-65-3 321735-66-4				
	RL: DEV (Device component use); USES (Uses) (org. electroluminescent devices employing styryl compds.)				
IT	321735-48-2 321735-49-3 321735-50-6 321735-51-7 321735-52-8 321735-53-9				
	RL: DEV (Device component use); USES (Uses) (org. electroluminescent devices employing styryl compds.)				
RN	321735-48-2 HCAPLUS				
CN	9,10-Anthracenedicarbonitrile, 2-[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)				



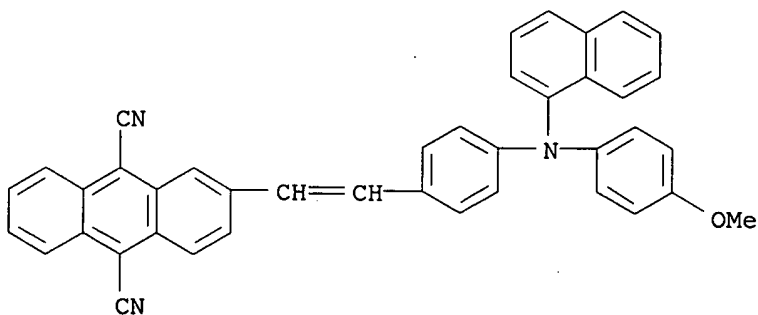
RN 321735-49-3 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(di-1-naphthalenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



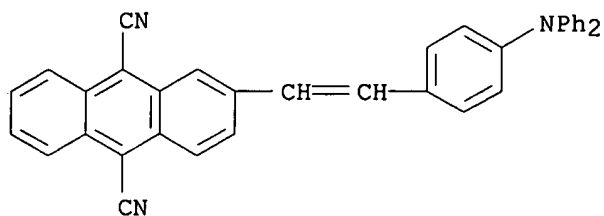
RN 321735-50-6 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[(4-methoxyphenyl)-1-naphthalenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

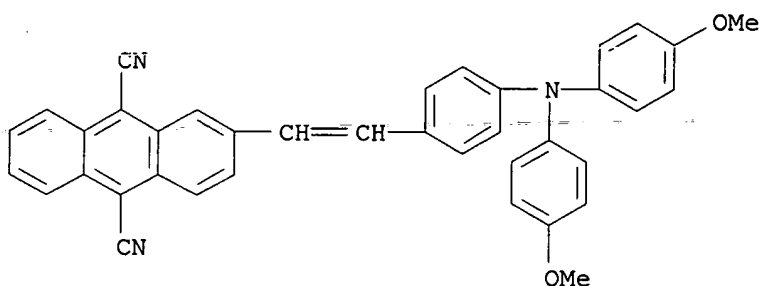


RN 321735-51-7 HCAPLUS

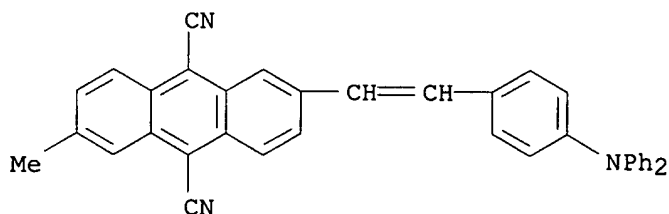
CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(diphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)



RN 321735-52-8 HCAPLUS
CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-[bis(4-methoxyphenyl)amino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)



RN 321735-53-9 HCAPLUS
CN 9,10-Anthracenedicarbonitrile, 2-[2-[4-(diphenylamino)phenyl]ethenyl]-6-methyl- (9CI) (CA INDEX NAME)



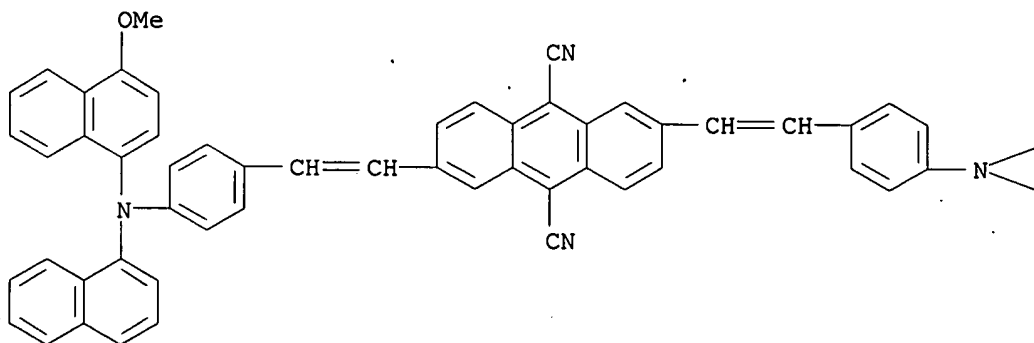
L6 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:78059 HCAPLUS
DN 134:139023
TI Organic electroluminescent device
IN Ishibashi, Tadashi; Ichimura, Mari; Tamura, Shinichiro
PA Sony Corp., Japan
SO Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C09K011-06
ICS H05B033-14
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

Section cross-reference(s): 76

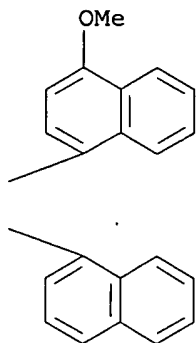
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1072668	A2	20010131	EP 2000-402171	20000728
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	TW 463520	B	20011111	TW 2000-89113986	20000713
	US 6495274	B1	20021217	US 2000-624146	20000721
	JP 2001110571	A2	20010420	JP 2000-229659	20000728
	CN 1283072	A	20010207	CN 2000-121795	20000731
PRAI	JP 1999-216308	A	19990730		
OS	MARPAT 134:139023				
AB	Org. electroluminescent devices comprising an org. layer, which contains at least one distyryl compd. R1R2N-p-C6H4-CH:CHXCH:CH-p-C6H4-NR3R4 [R1,4 = H, or (un)substituted aryl or naphthyl; X = cyano, nitro or halo substituted anthracene].				
ST	org electroluminescent device distyryl compd				
IT	Electroluminescent devices (org. electroluminescent device)				
IT	2085-33-8, Aluminum tris(8-hydroxyquinolinato) 7439-95-4, Magnesium, uses 7440-22-4, Silver, uses 65181-78-4, TPD 123847-85-8, .alpha.-NPD 321709-38-0 321709-39-1 321709-41-5 321709-42-6 321709-44-8 RL: DEV (Device component use); USES (Uses) (org. electroluminescent device)				
IT	321709-36-8 RL: DEV (Device component use); USES (Uses) (org. electroluminescent devices employing distyryl compds.)				
IT	321709-38-0 321709-39-1 321709-41-5 321709-42-6 321709-44-8 RL: DEV (Device component use); USES (Uses) (org. electroluminescent device)				
RN	321709-38-0 HCAPLUS				
CN	9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methoxy-1-naphthalenyl)-1-naphthalenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)				

PAGE 1-A

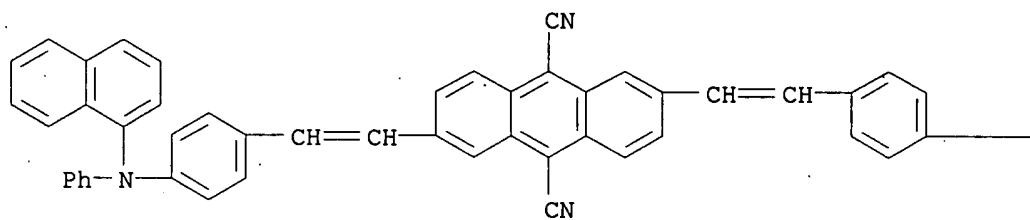


PAGE 1-B

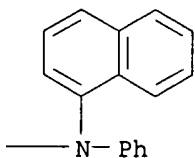


RN 321709-39-1 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(1-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

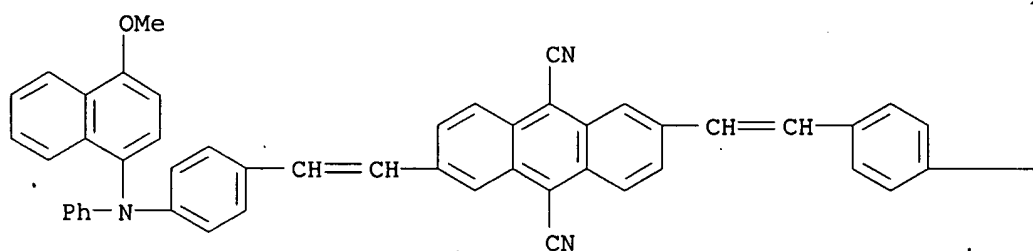


PAGE 1-B

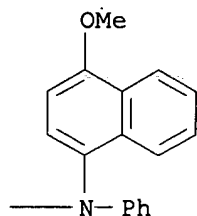


RN 321709-41-5 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methoxy-1-naphthalenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

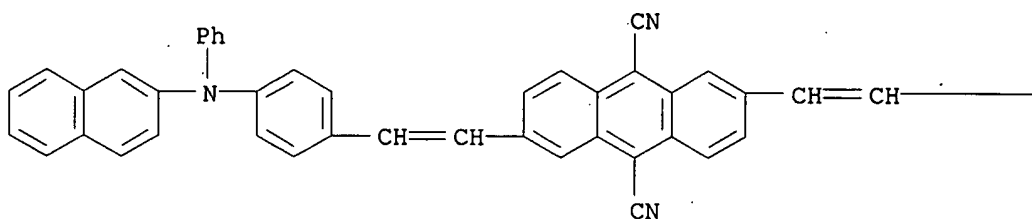


PAGE 1-B

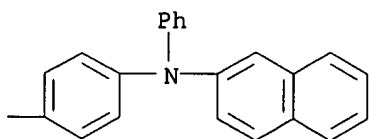


RN 321709-42-6 HCAPLUS
 CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(2-naphthalenylphenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

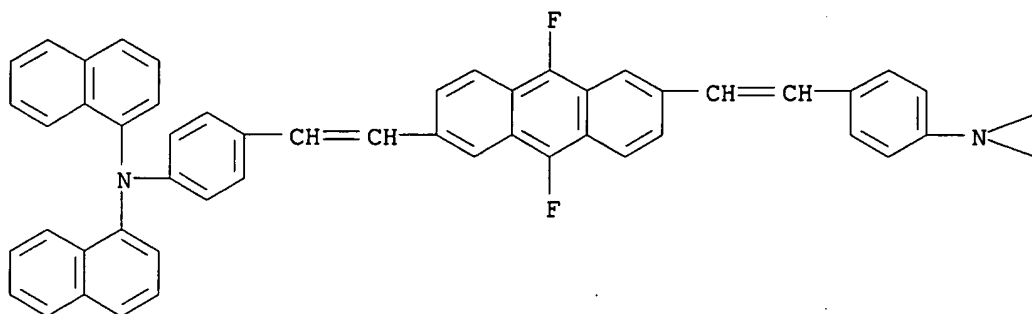


PAGE 1-B

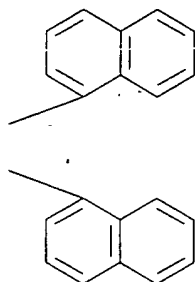


RN 321709-44-8 HCAPLUS
 CN 1-Naphthalenamine, N,N'-[(9,10-difluoro-2,6-anthracenediyl)bis(2,1-ethenediyl-4,1-phenylene)]bis[N-1-naphthalenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 321709-36-8

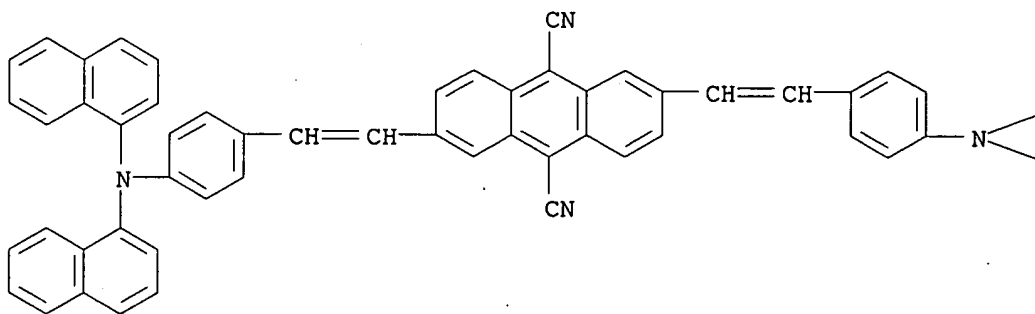
RL: DEV (Device component use); USES (Uses)

(org. electroluminescent devices employing distyryl compds.)

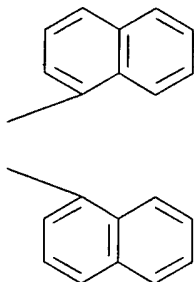
RN 321709-36-8 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(di-1-naphthalenylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



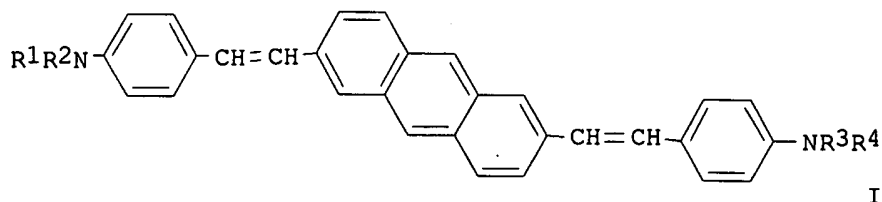
PAGE 1-B



L6 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2003 ACS
 AN 2000:34394 HCAPLUS
 DN 132:85755
 TI Organic electroluminescent component
 IN Ishibashi, Yoshi; Ichimura, Mari; Tamura, Shinichiro
 PA Sony Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM H05B033-14
 ICS C09K011-06; H05B033-22
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000012228	A2	20000114	JP 1998-180583	19980626
	US 2001038924	A1	20011108	US 1999-344211	19990624
	US 6440585	B2	20020827		
	CN 1242682	A	20000126	CN 1999-110983	19990625
	KR 2000006491	A	20000125	KR 1999-24405	19990626
PRAI	JP 1998-180583	A	19980626		
OS	MARPAT 132:85755				
GI					



AB The invention refers to an org. electroluminescent device, suitable for use in flat panel displays such as computer monitors and TV screens, which contain the di-styryl compd. I [R1-4 = benzene substituted with at least

one (un)satd. alkoxyl, or alkyl] as an electroluminescent material for red luminescence.

ST org electroluminescent device red luminescence

IT Electroluminescent devices
Optical imaging devices
(org. electroluminescent component)

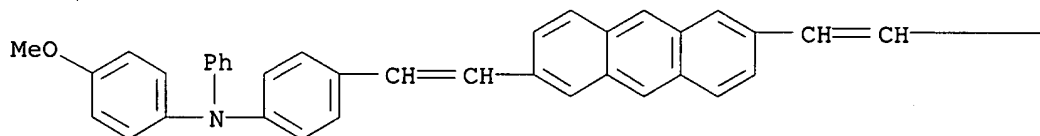
IT 90-30-2, .alpha.-Naphthylphenylamine 2085-33-8, Tris(8-hydroxyquinolate) aluminum 7439-95-4, Magnesium, uses 7440-22-4, Silver, uses 50926-11-9, ITO 65181-78-4, TPD 253868-51-8
RL: DEV (Device component use); USES (Uses)
(org. electroluminescent component)

IT 253868-51-8
RL: DEV (Device component use); USES (Uses)
(org. electroluminescent component)

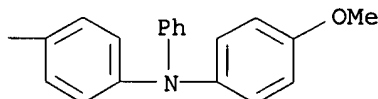
RN 253868-51-8 HCAPLUS

CN Benzenamine, 4,4'-(2,6-anthracenediyldi-2,1-ethenediyl)bis[N-(4-methoxyphenyl)-N-phenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L6 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:32675 HCAPLUS

DN 132:85740

TI Organic electroluminescent component

IN Ishibashi, Yoshi; Ichimura, Mari; Tamura, Shinichiro

PA Sony Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM H05B033-14
ICS C09K011-06; H05B033-22

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000012227	A2	20000114	JP 1998-180582	19980626
	US 6242116	B1	20010605	US 1999-339368	19990624
	CN 1241893	A	20000119	CN 1999-111215	19990625
PRAI	JP 1998-180582	A	19980626		

OS MARPAT 132:85740
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention refers to an org. electroluminescent device, suitable for use in flat panel displays such as computer monitors and TV screens, which contains the di-styryl compd. I [R1-4 = unidentical Ph substituted with at least one (un)satd. alkoxyl, or alkyl; and R5-12 contain at least one cyano, nitro or halo], and/or II [R18-25 contain at least one cyano, nitro, or halo] as an electroluminescent material for red luminescence.

ST org electroluminescent device red luminescence

IT Electroluminescent devices
Optical imaging devices
(org. electroluminescent component)

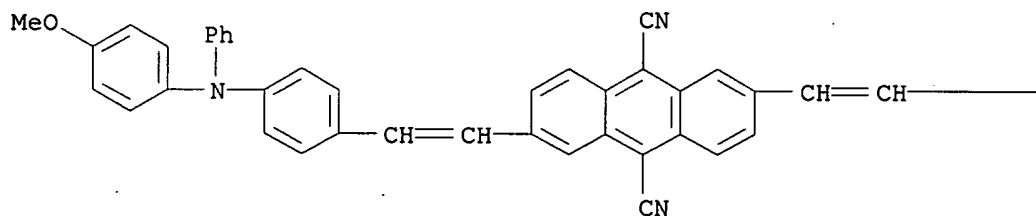
IT 90-30-2, .alpha.-Naphthylphenylamine 2085-33-8, Tris(8-hydroxyquinolate) aluminum 7439-95-4, Magnesium, uses 7440-22-4, Silver, uses 50926-11-9, ITO 65181-78-4, TPD 253868-96-1
253869-00-0
RL: DEV (Device component use); USES (Uses)
(org. electroluminescent component)

IT 253868-96-1 253869-00-0
RL: DEV (Device component use); USES (Uses)
(org. electroluminescent component)

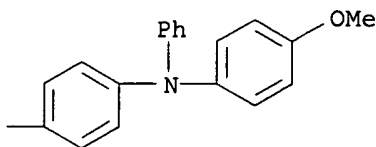
RN 253868-96-1 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RN 253869-00-0 HCAPLUS

CN 9,10-Anthracenedicarbonitrile, 2,6-bis[2-[4-(diphenylamino)phenyl]ethenyl]-
(9CI) (CA INDEX NAME)

